

DEFENSE WORK MEASUREMENT STANDARD TIME DATA PROGRAM
(DWMSTDP)

PART TWO - STRUCTURAL WORK OCCUPATIONS STANDARD TIME DATA

SECTION II - DWMSTDP ELEMENT LISTING

DEFENSE WORK MEASUREMENT STANDARD TIME DATA ELEMENTS

DATA SOURCE	OCCUP- ATION	QUALITY	SOURCE CODE	DWMSTOP ELEMENT	TMU VALUE	OPERATION/ELEMENT DESCRIPTION
NO	8XX	MAO	LFAIR	MCPCIXX	VARIABLE	CLAMP(BAR), INSTALL AND REMOVE STARTS-WITH REACH TO BAR CLAMP INCLUDES-ALL MOTIONS NECESSARY TO GET BAR CLAMP FROM BENCH, POSITION CLAMP TO PART AND CLOSE CLAMP ON PART; REACH TO CLAMP, OPEN CLAMP, MOVE CLAMP FROM PART AND ASIDE CLAMP TO BENCH ENDS-WITH RELEASE CLAMP CASE 01 INSTALL BAR CLAMP 02 REMOVE BAR CLAMP 236 185
NF	8XX	MAF	778	MGMRU01	317	RULE, USE TO MEASURE STARTS-WITH RULE IN HAND INCLUDES-ALL MOTIONS NECESSARY TO STOOP AND PLACE RULE TO FIRST REFERENCE POINT, ARISE, WALK TWO PACES TO OTHER END OF RULE, STOOP AND PLACE RULE TO SECOND REFERENCE POINT, READ RULE, PICK UP RULE, AND ARISE ENDS-WITH OPERATOR STANDING ERECT WITH RULE IN HAND CONDITIONS-APPLICABLE TO MEASUREMENTS GREATER THAN ONE BUT LESS THAN TWO FULL LENGTHS OF RULE. TIME TO UNFOLD AND FOLD RULE NOT INCLUDED
NF	8XX	MAF	3529	4JPOC01	211	DIE, CHANGE IN STOCK, HAND THREADING DIE STARTS-WITH DIE IN HAND INCLUDES-ALL MOTIONS NECESSARY TO RELEASE RATCHET, REMOVE AND ASIDE DIE, GET DIE, POSITION IN STOCK, AND ENGAGE RATCHET ENDS-WITH DIE IN HAND
NF	8XX	MAF	2398/99	MJPGT01	130	GAS, TURN ON, LIGHT, AND TURN OFF, GAS BURNER FOR HEATING SOLDERING IRON OR SIMILAR STARTS-WITH REACH TO LIGHTER INCLUDES-ALL MOTIONS NECESSARY TO GET LIGHTER, LIGHT BURNER WHILE TURNING VALVE TO START GAS FLOW, AND ASIDE LIGHTER; AND TURN VALVE CLOSED TO EXTINGUISH FLAME ENDS-WITH RELEASE OF VALVE
FFE	8XX	MAA	GTLORA6	SJPDIO1	802	DIE, INSTALL IN AND REMOVE FROM DIE STOCK, TWO SETSCREWS SECURING STARTS-WITH GET DIE STOCK INCLUDES-ALL MOTIONS NECESSARY TO LOOSEN TWO SETSCREWS TWO THREADS EACH BY HAND, GET DIE, PLACE DIE IN STOCK, TURN TWO SETSCREWS IN TWO THREADS EACH BY HAND, GET SCREWDRIER, TIGHTEN TWO SETSCREWS, ASIDE SCREWDRIER; GET DIE STOCK, GET SCREWDRIER, LOOSEN TWO SETSCREWS, ASIDE SCREWDRIER, AND INVERT DIE STOCK TO REMOVE DIE ENDS-WITH ASIDE DIE AND DIE STOCK
NF	8XX	MAF	3897	SJPPP01	363	POUCH(TOCL), PUT AROUND WAIST WITH STRAP AND REMOVE STARTS-WITH REACH TO POUCH INCLUDES-ALL MOTIONS NECESSARY TO GET POUCH, MOVE POUCH TO HIP, MOVE STRAP AROUND WAIST, FASTEN BUCKLE, AND PASS END OF STRAP THROUGH GUARD; AND REACH TO STRAP, UNBUCKLE, REMOVE FROM WAIST, WRAP STRAP AROUND POUCH, AND ASIDE POUCH ENDS-WITH RELEASE OF POUCH
AE	8XX	MAW	SOCEAXX	MLOLMXX	VARIABLE	LINE, MARK WITH CHALK LINE STARTS-WITH LINE IN RIGHT HAND, LEFT HAND REACH TO LINE INCLUDES-ALL MOTIONS NECESSARY TO POSITION STRING TO DESIRED LOCATION, HOLD STRING TAUT AND STRIKE LINE AND MOVE STRING AWAY ENDS-WITH STRING IN HANDS CONDITIONS-APPLICABLE TO MARKING FOR DECAL INSTALLATION OR SIMILAR CASE 01 MARK ONE-FOOT GUIDE LINE 02 MARK THREE-FOOT GUIDE LINE 103 172

DEFENSE WORK MEASUREMENT STANDARD TIME DATA ELEMENTS

DATA SOURCE	OCCUP- ATION	QUALITY	SOURCE CODE	DWMSTDP ELEMENT	TMU VALUE	OPERATION/ELEMENT DESCRIPTION
MAA	8XX	MAA	AMRGSXX	TLCLIXX	TABLE	LINE, INSCRIBE, CIRCULAR, USING FINGER AS A GUIDE STARTS=WITH GET MARKING DEVICE INCLUDES=ALL MOTIONS NECESSARY TO GET PART AND POSITION FOR MARKING, POSITION FINGER TO EDGE OF PART, AND DRAW CIRCLE USING THE FINGER RESTING ON EDGE OF PART AS GUIDE ENDS=WITH ASIDE PART, MARKING DEVICE IN HAND DIAMETER OF CIRCLE (INCHES) 2-6 6-12 A B FIRST CIRCLE A 659 1157 ADDITIONAL B 527 1325 CIRCLE
NF	8XX	MAF	2372	MOHLM01	347	LADDER (EXTENSION), MOVE, WEIGHT TO 60 POUNDS STARTS=WITH REACH TO LADDER INCLUDES=ALL MOTIONS NECESSARY TO TILT LADDER FORWARD, LIFT LADDER, SIDESTEP WITH LADDER FIVE FEET, SET LADDER DOWN, LEAN LADDER AGAINST SUPPORTING SURFACE, AND MOVE LADDER TO ADJUST ANGLE ENDS=WITH RELEASE OF LADDER
NF	8XX	MAF	4106	MOHLM02	440	LADDER (EXTENSION), MOVE, LADDER 20 FEET LONG STARTS=WITH REACH TO LADDER INCLUDES=ALL MOTIONS NECESSARY TO STAND LADDER UPRIGHT, LIFT LADDER, CARRY ONE PACE TO NEW LOCATION, SET LADDER DOWN, AND POSITION AT LOCATION ENDS=WITH RELEASE OF LADDER CONDITIONS=LADDER WEIGHS TO 75 POUNDS, FOR EACH ADDITIONAL PACE LADDER IS CARRIED ADD ONE OCCURENCE OF U 88M WJ 01
AF	8XX	MAA	5144RAD	MTLHPXX	VARIABLE	HOLE, PUNCH WITH PORTABLE PUNCH STARTS=WITH PUNCH IN HAND INCLUDES=ALL THE MOTIONS NECESSARY TO GET THE MATERIAL TO BE PUNCHED, MOVE PUNCH TO MATERIAL AND POSITION, MOVE PUNCH AGAINST MATERIAL, RELEASE MATERIAL WITH LEFT HAND (RIGHT HOLDING PUNCH), GRASP PUNCH WITH LEFT HAND, MOVE PUNCH HANDLE TO PUNCH HOLE, OPEN PUNCH, RELEASE PUNCH WITH LEFT HAND ENDS=WITH PUNCH HELD BY RIGHT HAND 90 51 CASE 01 PUNCH FIRST OR ONLY HOLE 02 PUNCH EACH ADDITIONAL HOLE
NF	8XX	MAF	3530	MTLRR01	54	RATCHET, REVERSE ON THREADING TOOL STARTS=WITH REACH TO RATCHET, RELEASE PIN INCLUDES=ALL MOTIONS NECESSARY TO DISENGAGE PIN AND TURN TO REVERSE RATCHET ON HAND THREADING TOOL ENDS=WITH RELEASE OF PIN
NF	8XX	MAF	1315	STPCC01	243	CHISEL, CHANGE IN PNEUMATIC HAND CHIPPER STARTS=WITH REACH TO CHIPPER TO HOLD INCLUDES=ALL MOTIONS NECESSARY TO GET CHISEL WITH OTHER HAND, REMOVE AND ASIDE CHISEL, GET CHISEL, AND INSERT IN CHIPPER ENDS=WITH CHIPPER IN HAND CONDITIONS=APPLICABLE TO PNEUMATIC HAND CHIPPER, ELECTRIC HAND HAMMER, OR SIMILAR
FFD	80X	MAA	KSMGH01	MGMHG01	178	HOLE, GAUGE TO DETERMINE RIVET LENGTH STARTS=WITH GET GAUGE INCLUDES=ALL MOTIONS NECESSARY TO POSITION GAUGE TO HOLE, SLIDE GAUGE BAR TO SURFACE, AND READ GAUGE ENDS=WITH ASIDE GAUGE

DEFENSE WORK MEASUREMENT STANDARD TIME DATA ELEMENTS

DATA SOURCE	OCCUP- ATION	QUALITY	SOURCE CODE	DWMSTD ELEMENT	TMU VALUE	OPERATION/ELEMENT DESCRIPTION
NAA	80X	MAA	AMRQ43	SJPTS01	1638	TOOL(AIRLOC),SET UP FOR INSTALLATION OR REMOVAL OF PIN IN AIRLOC STUD STARTS-WITH GET AIRLOC TOOL INCLUDES-ALL MOTIONS NECESSARY TO PLACE TOOL IN VISE,OPEN HANDLE,GET SCREWDRIVER,REMOVE SCREW,ASIDE SCREW AND SCREWDRIVER,REMOVE THREADED SPACER,LIFT TURN BAR FROM HANDLE,LIFT BAR AND GUIDE PIN FROM SPRING,REVERSE BAR, POSITION BAR IN HANDLE,ENGAGE GUIDE PIN TO SPRING,INSTALL THREADED SPACER,GET SCREW- DRIVER,INSTALL SCREW,ASIDE SCREWDRIVER AND REMOVE TOOL FROM VISE ENDS-WITH ASIDE TOOL
NAA	80X	MAA	AMRQ44	SJPTS02	353	TOOL(PNEUMATIC SQUEEZE),SET UP AND ASIDE,FOR INSTALLATION OF PIN IN AIRLOC STUD STARTS-WITH GET PNEUMATIC SQUEEZE INCLUDES-ALL MOTIONS NECESSARY TO GET FLUSH SQUEEZE SET,GET SLOTTED SQUEEZE SET,INSTALL SLOTTED SQUEEZE SET,INSTALL FLUSH SQUEEZE SET; AND REMOVE FLUSH SQUEEZE SET,REMOVE SLOTTED SQUEEZE SET,AND ASIDE BOTH SETS ENDS-WITH ASIDE PNEUMATIC SQUEEZE
NAA	80X	MAA	DTFCHXX	MNFFLXX VARIABLE	402 320	FASTENER(CAMLOC),LOOSEN STARTS-WITH GET SCREWDRIVER INCLUDES-ALL MOTIONS NECESSARY TO POSITION SCREWDRIVER TO FASTENER STUD,TURN STUD 90 DEGREES TO UNLOCK,AND TURN STUD 1.5-3 REVOLUTIONS TO UNFASTEN ENDS-WITH ASIDE SCREWDRIVER CONDITIONS-APPLICABLE TO CAMLOC HIGH STRESS PANEL FASTENER CASE 01 FIRST OR SINGLE FASTENER 02 EACH ADDITIONAL FASTENER IN A SERIES
NAA	80X	MAA	DTFCHXX	MNFFTXX VARIABLE	435 366	FASTENER(CAMLOC),TIGHTEN STARTS-WITH GET SCREWDRIVER INCLUDES-ALL MOTIONS NECESSARY TO POSITION SCREWDRIVER TO FASTENER STUD,TURN STUD COUNTERCLOCKWISE TO ALIGN,PUSH IN TO SEAT STUD,TURN STUD 90 DEGREES TO LOCK,AND TURN STUD 1.5-3 REVOLUTIONS TO TIGHTEN TO RECEPTACLE ENDS-WITH ASIDE SCREWDRIVER CONDITIONS-APPLICABLE TO CAMLOC HIGH STRESS PANEL FASTENER CASE 01 FIRST OR SINGLE FASTENER 02 EACH ADDITIONAL FASTENER IN A SERIES

DEFENSE WORK MEASUREMENT STANDARD TIME DATA ELEMENTS

DATA SOURCE	OCCUP- ATION	QUALITY	SOURCE CODE	DWMSTD ELEMENT	TMU VALUE	OPERATION/ELEMENT DESCRIPTION
NAA	80X	MBA	AMRHXX	SNFFIXX	VARIABLE	FASTENER(HIGH STRENGTH), INSTALL STARTS-WITH GET TOOLS TO DRILL HOLE INCLUDES-ALL MOTIONS NECESSARY TO LOCATE HOLE, DRILL HOLE, RECESS HOLE, DEBURR HOLE, CHAMFER HOLE FOR PROPER FIT, AND INSTALL FASTENER ENDS-WITH FASTENER INSTALLED CONDITIONS-APPLICABLE TO ALL SIZE HUCK STUMP TYPE SHEAR PINS, HIGH SHEAR RIVETS, OR SIMILAR, IN HOLES WITH INTERFERENCE FIT(CASES 01-08). APPLICABLE TO HUCK PULL TYPE SHEAR PINS OR SIMILAR TO 3/8 INCH DIAMETER, ALL LENGTHS, AND TO HUCK GUN MODELS 200, 352, OR SIMILAR(CASES 09-12). APPLICABLE TO HI-LOK FASTENERS TO 9/16 INCH DIAMETER(CASES 13-16). ALL CASES APPLICABLE TO ALUMINUM .020-.250 INCH THICKNESS OR STAINLESS STEEL .020-.050 INCH THICKNESS. INCLUDES SETUP OF TOOLS.
					8900	CASE 01 FIRST HI-SHEAR FLUSH RIVET, 1-MAN OPERATION
					1770	02 EACH ADDITIONAL HI-SHEAR FLUSH RIVET, 1-MAN OPERATION
					10330	03 FIRST HI-SHEAR FLUSH RIVET, 2-MAN OPERATION
					2320	04 EACH ADDITIONAL HI-SHEAR FLUSH RIVET, 2-MAN OPERATION
					5510	05 FIRST HI-SHEAR FLAT HEAD RIVET, 1-MAN OPERATION
					1530	06 EACH ADDITIONAL HI-SHEAR FLAT HEAD RIVET, 1-MAN OPERATION
					6940	07 FIRST HI-SHEAR FLAT HEAD RIVET, 2-MAN OPERATION
					2080	08 EACH ADDITIONAL HI-SHEAR FLAT HEAD RIVET, 2-MAN OPERATION
					7160	09 FIRST FLUSH HUCK LOCK FASTENER
					1510	10 EACH ADDITIONAL FLUSH HUCK LOCK FASTENER
					4270	11 FIRST UNIVERSAL HUCK LOCK FASTENER
					1340	12 EACH ADDITIONAL UNIVERSAL HUCK LOCK FASTENER
					8020	13 FIRST FLUSH HI-LOK FASTENER
					2070	14 EACH ADDITIONAL FLUSH HI-LOK FASTENER
					5130	15 FIRST UNIVERSAL HI-LOK FASTENER
					1900	16 EACH ADDITIONAL UNIVERSAL HI-LOK FASTENER

DEFENSE WORK MEASUREMENT STANDARD TIME DATA ELEMENTS

DATA SOURCE	OCCUP- ATION	QUALITY	SOURCE CODE	DWMSTD ELEMENT	TMU VALUE	OPERATION/ELEMENT DESCRIPTION
NAA	80X	MBA	AMRHRXX	SNFFRX	VARIABLE	FASTENERS(HIGH STRENGTH),REPLACE STARTS-WITH REACH TO TOOL OR AIR HOSE INCLUDES-ALL MOTIONS NECESSARY TO REMOVE AND INSTALL HIGH STRENGTH FASTENER AS DESCRIBED IN EACH CASE ENDS-WITH ASIDE TOOL OR AIR HOSE CONDITIONS-CASES 01 THRU 08 APPLY TO ALL SIZES HUCK STUMP TYPE SHEAR PINS,HI-SHEAR RIVETS OR SIMILAR IN INTERFERENCE FIT HOLES. CASES 09 AND 10 APPLY TO HUCK PULL TYPE SHEAR PINS OR SIMILAR TO 3/8 INCH DIAMETER,ALL LENGTHS AND HUCK GUN MODEL 352,200 OR SIMILAR.FASTENER INSTALLED IN EXISTING HOLE. CASE 01 REMOVE AND INSTALL HI-SHEAR FLUSH HEAD RIVET,1-MAN OPERATION,FIRST FASTENER CASE 02 REMOVE AND INSTALL HI-SHEAR FLUSH HEAD RIVET,1-MAN OPERATION,ADDITIONAL FASTENER CASE 03 REMOVE AND INSTALL HI-SHEAR FLAT HEAD RIVET,1-MAN OPERATION,FIRST FASTENER CASE 04 REMOVE AND INSTALL HI-SHEAR FLAT HEAD RIVET,1-MAN OPERATION,ADDITIONAL FASTENER CASE 05 REMOVE AND INSTALL HI-SHEAR FLUSH HEAD RIVET,2-MAN OPERATION,FIRST FASTENER CASE 06 REMOVE AND INSTALL HI-SHEAR FLUSH HEAD RIVET,2-MAN OPERATION,ADDITIONAL FASTENER CASE 07 REMOVE AND INSTALL HI-SHEAR FLAT HEAD RIVET,2-MAN OPERATION,FIRST FASTENER CASE 08 REMOVE AND INSTALL HI-SHEAR FLAT HEAD RIVET,2-MAN OPERATION,ADDITIONAL FASTENER CASE 09 REMOVE AND INSTALL HUCK LOCK PIN AND COLLAR,FLUSH OR UNIVERSAL,FIRST FASTENER CASE 10 REMOVE AND INSTALL HUCK LOCK PIN AND COLLAR,FLUSH OR UNIVERSAL,ADDITIONAL FASTENER
					3580	
					1070	
					3080	
					1000	
					5010	
					1620	
					4510	
					1550	
					1410	
					900	
NAA	80X	MAA	ONFFTXX	SNFFSXX	VARIABLE	FASTENER(TURNLOCK),SEAT AND TIGHTEN STARTS-WITH GET TOOL INCLUDES-ALL MOTIONS NECESSARY TO POSITION TOOL TO SLOT IN FASTENER,ALIGN FASTENER,SEAT FASTENER,AND TURN FASTENER TO LOCK ENDS-WITH ASIDE TOOL CONDITIONS-APPLICABLE TO DZUS,CAMLOC,AIRLOC OR SIMILAR FASTENERS TO 3/8 INCH DIAMETER TURNED APPROXIMATELY 90 DEGREES TO LOCK CASE 01 FIRST FASTENER CASE 02 EACH ADDITIONAL FASTENER
					140	
					87	
NAA	80X	MAA	ONFFTXX	SNFFUXX	VARIABLE	FASTENER(TURNLOCK),UNLOCK STARTS-WITH GET TOOL INCLUDES-ALL MOTIONS NECESSARY TO POSITION TOOL TO SLOT AND TURN FASTENER TO UNLOCK ENDS-WITH ASIDE TOOL CONDITIONS-APPLICABLE TO DZUS,CAMLOC,AIRLOC, OR SIMILAR FASTENERS TO 3/8 INCH DIAMETER TURNED APPROXIMATELY 90 DEGREES TO UNLOCK CASE 01 FIRST FASTENER CASE 02 EACH ADDITIONAL FASTENER
					114	
					61	
FFD	80X	MAA	KALSAXX	SNFLIXX	VARIABLE	LOCK(WEDGE),INSTALL STARTS-WITH GET WEDGE LOCK INCLUDES-ALL MOTIONS NECESSARY TO PUSH STEM DOWN,PLACE LOCK IN HOLE,GET TOOL AND PLACE ON LOCK,AND SECURE LOCK ENDS-WITH ASIDE TOOL CASE 01 FIRST WEDGE LOCK CASE 02 EACH ADDITIONAL WEDGE LOCK(DOES NOT INCLUDE GET LOCK OR GET/ASIDE TOOL)
					335	
					186	

DEFENSE WORK MEASUREMENT STANDARD TIME DATA ELEMENTS

DATA SOURCE	OCCUP- ATION	QUALITY	SOURCE CODE	DWMSTOP ELEMENT	TMU VALUE	OPERATION/ELEMENT DESCRIPTION
FFE	80X	MBA	KALSDF5	SNFLR01	231	LOCK(WEDGE), REMOVE WITH PNEUMATIC TOOL STARTS-WITH GET PNEUMATIC TOOL INCLUDES-ALL MOTIONS NECESSARY TO PLACE TOOL ON WEDGE LOCK, RELEASE LOCK, ASIDE TOOL, AND REMOVE WEDGE LOCK ENDS-WITH ASIDE WEDGE LOCK CONDITIONS-DOES NOT INCLUDE TIME TO SET UP PNEUMATIC TOOL
FPD	80X	MAA	KSHMFXX	MTLFUXX	VARIABLE	FINDER(HOLE), USE, LEAF TYPE STARTS-WITH GET HOLE FINDER INCLUDES-ALL MOTIONS NECESSARY TO SPREAD LEAVES, PLACE FINDER ON METAL, ENGAGE PEG IN HOLE, HOLD GUIDE FOR DRILLING, AND REMOVE FINDER FROM HOLE ENDS-WITH ASIDE HOLE FINDER CONDITIONS-TIME FOR DRILLING NOT INCLUDED CASE 01 FIRST HOLE 02 EACH ADDITIONAL HOLE
					302 172	
NAA	80X	MAA	SHRMXX	MTLHRXX	VARIABLE	HOLE, REAM WITH HAND REAMER STARTS-WITH REAMER IN HAND INCLUDES-ALL MOTIONS NECESSARY TO MOVE REAMER TO HOLE, POSITION, REAM HOLE, AND REMOVE REAMER FROM HOLE ENDS-WITH REAMER IN HAND CONDITIONS-.003 INCH STOCK REMOVAL FROM HOLE ONE INCH DEEP IN ALUMINUM CASE 01 HOLE TO 3/8 INCH DIAMETER 02 HOLE 3/8-3/4 INCH DIAMETER 03 HOLE 3/4-1 1/2 INCHES DIAMETER
					752 1139 1744	
NAA	80X	MUA	AMRMXX	STLACXX	VARIABLE	ALUMINUM, CUT WITH COMPOUND LEVER SNIPS, PER LINEAR INCH STARTS-WITH GET SNIPS INCLUDES-ALL MOTIONS NECESSARY TO POSITION SNIPS TO CUT POINT AND CUT ONE LINEAR INCH ENDS-WITH ASIDE SNIPS CONDITIONS-"ADDITIONAL INCH" CASES DO NOT INCLUDE GET AND ASIDE SNIPS. APPLICABLE TO CURVED, CIRCULAR OR STRAIGHT CUTS IN 24S, 75S, OR SIMILAR ALUMINUM CASE 01 FIRST LINEAR INCH, ROUGH CUT, MATERIAL .001-.032 INCH THICKNESS 02 EACH ADDITIONAL LINEAR INCH, ROUGH CUT, MATERIAL .001-.032 INCH THICKNESS 03 FIRST LINEAR INCH, ROUGH CUT, MATERIAL .033-.052 INCH THICKNESS 04 EACH ADDITIONAL LINEAR INCH, ROUGH CUT, MATERIAL .033-.052 INCH THICKNESS 05 FIRST LINEAR INCH, FINISH CUT, MATERIAL .001-.032 INCH THICKNESS 06 EACH ADDITIONAL LINEAR INCH, FINISH CUT, MATERIAL .001-.032 INCH THICKNESS 07 FIRST LINEAR INCH, FINISH CUT, MATERIAL .033-.052 INCH THICKNESS 08 EACH ADDITIONAL LINEAR INCH, FINISH CUT, MATERIAL .033-.052 INCH THICKNESS
					166 106 220 160 284 224 402 342	
NAA	80X	MAA	SHRSRXX	STLLRXX	VARIABLE	LAMINATION, REMOVE ONE LAYER FROM SHIMSTOCK, TO TWO INCHES WIDE AND SIX INCHES LONG STARTS-WITH GET SHIMSTOCK INCLUDES-ALL MOTIONS NECESSARY TO GET KNIFE, PULL UP CORNER OF LAMINATION, ASIDE KNIFE, GET NEEDLE NOSE PLIERS, PULL LAMINATION FROM STOCK, AND ASIDE STOCK AND LAMINATION ENDS-WITH ASIDE PLIERS CASE 01 REMOVE FIRST SIX LINEAR INCHES FROM SHIMSTOCK 02 REMOVE ADDITIONAL SIX LINEAR INCHES
					841 132	

DEFENSE WORK MEASUREMENT STANDARD TIME DATA ELEMENTS

DATA SOURCE	OCCUPATION	QUALITY	SOURCE CODE	DWMSTOP ELEMENT	TMU VALUE	OPERATION/ELEMENT DESCRIPTION																											
VF	BOX	MAF	2340	STLMCXX	VARIABLE	METAL,CUT WITH SNIPS,PER INCH,SHEET METAL STARTS=WITH REACH TO SNIPS INCLUDES=ALL MOTIONS NECESSARY TO MOVE SNIPS TO METAL,CUT ONE LINEAR INCH,AND ASIDE SNIPS ENDS=WITH RELEASE OF SNIPS CASE 01 FIRST INCH 02 EACH ADDITIONAL INCH																											
					165 88																												
FFD	800	MAA	KSMOCXX	TEMHOXX	TABLE	HOLE,DIMPLE(COLD AND HOT) STARTS=WITH OBJECT TO BE DIMPLED IN HAND INCLUDES=ALL THE MOTIONS NECESSARY TO MOVE OBJECT TO DIE PEG,POSITION ON PEG,MOVE LEG TO OPEN AND CLOSE RAM,REMOVE OBJECT FROM DIE PEG ENDS=WITH OBJECT DISENGAGED FROM DIE PEG CONDITIONS=TIMES ARE PER HOLE DIMPLED(COLD)- ADD TIME FROM ELEMENT 800 BPTMHXX TO OBTAIN TIME FOR HOT DIMPLE(ONE OCCURENCE PER HOLE)																											
						<table><thead><tr><th rowspan="2">WEIGHT OF OBJECT POUNDS</th><th colspan="3">SPACE BETWEEN HOLES</th></tr><tr><th>TO 1 INCH A</th><th>1 TO 3 INCHES B</th><th>3 TO 9 INCHES C</th></tr></thead><tbody><tr><td>TO 2.5</td><td>A 67</td><td>70</td><td>75</td></tr><tr><td>2.5 TO 10</td><td>B 71</td><td>74</td><td>79</td></tr><tr><td>10 TO 20</td><td>C 77</td><td>80</td><td>85</td></tr><tr><td>20 TO 30</td><td>D 82</td><td>85</td><td>90</td></tr><tr><td>30 TO 40</td><td>E 88</td><td>91</td><td>96</td></tr></tbody></table>	WEIGHT OF OBJECT POUNDS	SPACE BETWEEN HOLES			TO 1 INCH A	1 TO 3 INCHES B	3 TO 9 INCHES C	TO 2.5	A 67	70	75	2.5 TO 10	B 71	74	79	10 TO 20	C 77	80	85	20 TO 30	D 82	85	90	30 TO 40	E 88	91	96
WEIGHT OF OBJECT POUNDS	SPACE BETWEEN HOLES																																
	TO 1 INCH A	1 TO 3 INCHES B	3 TO 9 INCHES C																														
TO 2.5	A 67	70	75																														
2.5 TO 10	B 71	74	79																														
10 TO 20	C 77	80	85																														
20 TO 30	D 82	85	90																														
30 TO 40	E 88	91	96																														
FFE	800	MAA	KSMIRO1	SITRI01	226	RIVET,INSPECT WITH LIGHT STARTS=WITH GET LIGHT INCLUDES=ALL MOTIONS NECESSARY TO TURN LIGHT ON,INSPECT HEAD OF RIVET,MOVE LIGHT,INSPECT TAIL OF RIVET,AND TURN LIGHT OFF ENDS=WITH ASIDE LIGHT CONDITIONS=BODY MOTIONS REQUIRED TO GET IN POSITION FOR INSPECTION NOT INCLUDED																											
FFE	800	MAA	KSMIRO2	SITRI02	370	RIVET,INSPECT WITH LIGHT AND MIRROR STARTS=WITH GET INSPECTION LIGHT INCLUDES=ALL MOTIONS NECESSARY TO GET MIRROR,TURN LIGHT ON,PLACE MIRROR AND ADJUST ANGLE,INSPECT ONE END OF RIVET,MOVE LIGHT,INSPECT OTHER END OF RIVET,ASIDE MIRROR,AND TURN LIGHT OFF ENDS=WITH ASIDE INSPECTION LIGHT CONDITIONS=MIRROR REQUIRED TO INSPECT ONLY ONE END OF RIVET.BODY MOTIONS REQUIRED TO GET IN POSITION FOR INSPECTION NOT INCLUDED.																											
FFE	800	MAA	KALSS20	SJPGS01	424	GUN(RIVET),SET UP,INITIAL STARTS=WITH GET RIVET GUN INCLUDES=ALL MOTIONS NECESSARY TO GET AIR HOSE,ATTACH TO GUN,GET RIVET SET,MOVE SPRING ASIDE,INSTALL SET IN GUN;AND REMOVE AND ASIDE SET,DISCONNECT AIR HOSE,AND ASIDE AIR HOSE ENDS=WITH ASIDE GUN																											
FFE	800	MAA	KALSS20	SJPGS02	173	GUN(RIVET),SET UP,CHANGE RIVET SET STARTS=WITH RIVET GUN IN HAND INCLUDES=ALL MOTIONS NECESSARY TO MOVE SPRING ASIDE,REMOVE AND ASIDE RIVET SET,GET RIVET SET,MOVE SPRING ASIDE,AND INSTALL RIVET SET ENDS=WITH RELEASE OF SET,GUN IN HAND																											

OFFENSE WORK MEASUREMENT STANDARD TIME DATA ELEMENTS

DATA SOURCE	OCCUP- ATION	QUALITY	SOURCE CODE	DWMSTOP ELEMENT	TMU VALUE	OPERATION/ELEMENT DESCRIPTION
NAA	800	MAA	AMRRRX	SNFCRX	VARIABLE	<p>RIVET, CUT PROTRUDING HEAD WITH RIVET GUN AND CHISEL</p> <p>STARTS-WITH GET RIVET GUN</p> <p>INCLUDES-ALL MOTIONS NECESSARY TO GET CHISEL, INSERT IN GUN, GET AND INSTALL SPRING, POSITION CHISEL TO RIVET HEAD, CUT RIVET, AND REMOVE AND ASIDE SPRING AND CHISEL</p> <p>ENDS-WITH ASIDE RIVET GUN</p> <p>CONDITIONS-"EACH ADDITIONAL" CASES INCLUDE POSITION CHISEL AND CUT RIVET ONLY</p> <p>580 CASE 01 FIRST RIVET-ALUMINUM TO 3/16 INCH DIAMETER, OR STEEL OR MONEL TO 1/8 INCH DIAMETER</p> <p>39 02 EACH ADDITIONAL RIVET-ALUMINUM TO 3/16 INCH DIAMETER, OR STEEL OR MONEL TO 1/8 INCH DIAMETER</p> <p>613 03 FIRST MONEL OR STEEL RIVET 5/32-3/16 INCH DIAMETER, OR SCREW OR BOLT TO NO. 10</p> <p>69 04 EACH ADDITIONAL MONEL OR STEEL RIVET 5/32-3/16 INCH DIAMETER, OR SCREW OR BOLT TO NO. 10</p>
NAA	800	MAA	AMRRRX	SNFDRX	VARIABLE	<p>RIVET, DRIVE OUT WITH HAMMER AND PIN PUNCH, 2-MAN OPERATION</p> <p>STARTS-WITH GET HAMMER</p> <p>INCLUDES-ALL MOTIONS NECESSARY TO GET PIN PUNCH, POSITION TO RIVET SHANK, GET BACKUP BAR, POSITION TO SIDE OF RIVET, AND DRIVE RIVET OUT WITH THREE HAMMER BLOWS</p> <p>ENDS-WITH ASIDE TOOLS</p> <p>CONDITIONS-TIME VALUES SHOWN ARE TOTALS FOR TWO OPERATORS, APPLICABLE TO DRIVING RIVETS OUT IN ACCESSIBLE AREAS WHERE USE OF A BACKUP BAR IS NECESSARY.</p> <p>528 CASE 01 FIRST RIVET</p> <p>248 02 EACH ADDITIONAL RIVET</p>
NAA	800	MUA	AMBRXX	SNFFRX	VARIABLE	<p>FASTENER (BLIND), REMOVE, DEUTSCH DRIVE PIN RIVET</p> <p>STARTS-WITH GET HAMMER</p> <p>INCLUDES-ALL MOTIONS NECESSARY TO GET CENTER PUNCH, PUNCH RIVET STEM FOR DRILLING, ASIDE HAMMER AND PUNCH, GET DRILL MOTOR, GET AND INSTALL DRILL, DRILL STEM (PARTIAL), ASIDE DRILL, GET TAP HANDLE, GET AND INSTALL TAP IN HANDLE, TAP STEM, REMOVE TAP FROM HANDLE, ASIDE TAP AND HANDLE, GET DRILL, DRILL PIN, REMOVE DRILL FROM CHUCK, ASIDE DRILL AND DRILL MOTOR, GET ALLEN HEAD SCREW WITH HEX NUT INSTALLED, TURN HEX NUT UP SCREW, GET SPACER, POSITION ON SCREW, INSTALL SCREW IN TAPPED PIN, HOLD SCREW WITH ALLEN WRENCH, TIGHTEN HEX NUT AGAINST SPACER TO REMOVE PIN, PLACE PIN IN VISE, REMOVE SCREW FROM PIN, AND ASIDE TOOLS</p> <p>ENDS-WITH ASIDE TOOLS</p> <p>10400 CASE 01 FIRST FASTENER</p> <p>9640 02 EACH ADDITIONAL FASTENER (DOES NOT INCLUDE SET UP OF DRILL OR TAP)</p>
NAA	800	MAA	AMRBNXX	SNFIRXX	VARIABLE	<p>RIVET (DEUTSCH DRIVE PIN), INSTALL, ALL SIZES</p> <p>STARTS-WITH GET RIVET</p> <p>INCLUDES-ALL MOTIONS NECESSARY TO POSITION RIVET IN HOLE, GET HAMMER, GET HOLLOW PUNCH, POSITION PUNCH OVER RIVET STEM, DRIVE RIVET HEAD FLUSH WITH SURFACE, ASIDE HAMMER AND PUNCH, GET RIVET GUN, GET AND INSTALL FLUSH RIVET SET, GET AND INSTALL SPRING, POSITION GUN TO DRIVE PIN, DRIVE PIN WITH RIVET GUN, REMOVE SPRING, REMOVE SET, AND ASIDE SPRING AND SET</p> <p>ENDS-WITH ASIDE RIVET GUN</p> <p>860 CASE 01 FIRST RIVET</p> <p>210 02 EACH ADDITIONAL RIVET IN A SERIES (DOES NOT INCLUDE GET, SET UP, OR ASIDE TOOLS)</p>

DEFENSE WORK MEASUREMENT STANDARD TIME DATA ELEMENTS

DATA SOURCE	OCCUP- ATION	QUALITY	SOURCE CODE	DWMSTOP ELEMENT	TMU VALUE	OPERATION/ELEMENT DESCRIPTION
FFD	800	MAA	KALSDXX	SNFRDXX	VARIABLE	<p>RIVET, DRILL AND REMOVE, COUNTERSUNK OR UNIVERSAL HEAD</p> <p>STARTS-WITH GET DRILL, DRILL BIT PREVIOUSLY INSTALLED</p> <p>INCLUDES-ALL MOTIONS NECESSARY TO PLACE DRILL TO RIVET HEAD, DRILL RIVET, ASIDE DRILL, GET PUNCH, GET HAMMER, PLACE PUNCH TO RIVET SHANK, AND DRIVE RIVET FROM HOLE</p> <p>ENDS-WITH ASIDE TOOLS</p> <p>556 CASE 01 FIRST ALUMINUM RIVET TO 3/16 INCH DIAMETER</p> <p>351 02 EACH ADDITIONAL ALUMINUM RIVET TO 3/16 INCH DIAMETER (NO GET/ASIDE TOOLS)</p> <p>756 03 FIRST ALUMINUM RIVET 5/16 INCH DIAMETER OR LARGER (TIME TO DRILL PILOT HOLE ALLOWED, BUT NO TIME TO CHANGE DRILL BIT)</p> <p>471 04 EACH ADDITIONAL ALUMINUM RIVET 5/16 INCH DIAMETER OR LARGER (NO GET/ASIDE TOOLS)</p> <p>1112 05 FIRST STEEL RIVET 3/32-3/16 INCH DIAMETER</p> <p>907 06 EACH ADDITIONAL STEEL RIVET 3/32-3/16 INCH DIAMETER (NO GET/ASIDE TOOLS)</p>
FFD	800	MAA	KALSAXX	SNFRIXX	VARIABLE	<p>RIVET, INSTALL</p> <p>STARTS-WITH GET RIVET GUN AND RIVET(S)</p> <p>INCLUDES-ALL MOTIONS NECESSARY TO PLACE RIVET IN HOLE, PLACE GUN TO RIVET, AND DRIVE RIVET</p> <p>ENDS-WITH ASIDE GUN</p> <p>CONDITIONS-TIME TO SET UP RIVET GUN NOT INCLUDED</p> <p>219 CASE 01 FIRST ALUMINUM RIVET TO 1/4 INCH DIAMETER (ONE OPERATOR-NO BUCKING BAR)</p> <p>144 02 EACH ADDITIONAL ALUMINUM RIVET TO 1/4 INCH DIAMETER (ONE OPERATOR)</p> <p>1026 03 FIRST ALUMINUM RIVET 5/16 INCH OR LARGER DIAMETER (TIME SHOWN IS FOR TWO OPERATORS, USE OF BUCKING BAR REQUIRED)</p> <p>876 04 EACH ADDITIONAL ALUMINUM RIVET 5/16 INCH OR LARGER DIAMETER (TWO OPERATORS, BUCKING BAR REQUIRED)</p> <p>446 05 FIRST STEEL RIVET TO 3/16 INCH DIAMETER (TIME SHOWN IS FOR TWO OPERATORS, USE OF BUCKING BAR REQUIRED)</p> <p>296 06 EACH ADDITIONAL STEEL RIVET TO 3/16 INCH DIAMETER (TWO OPERATORS, USE BUCKING BAR)</p>
FFD	800	MAA	KALSAC1	SNFRIC7	683	<p>RIVET, INSTALL, COLLARED FASTENER, 3/16-1/4 INCH DIAMETER, FIRST RIVET</p> <p>STARTS-WITH GET FASTENER(S)</p> <p>INCLUDES-ALL MOTIONS NECESSARY TO PLACE PIN IN HOLE, GET HAMMER, SEAT PIN, ASIDE HAMMER, GET COLLAR, PLACE ON PIN, GET BUCKING BAR, PLACE TO RIVET, GET AND POSITION GUN, SECURE COLLAR ON PIN, AND ASIDE GUN</p> <p>ENDS-WITH ASIDE BUCKING BAR</p> <p>CONDITIONS-NO TIME ALLOWED FOR SETUP OF GUN</p>
FFD	800	MAA	KALSAC2	SNFRIC8	335	<p>RIVET, INSTALL, COLLARED FASTENER 3/16-1/4 INCH DIAMETER, ADDITIONAL RIVET</p> <p>STARTS-WITH FASTENER IN HAND</p> <p>INCLUDES-ALL MOTIONS NECESSARY TO PLACE PIN IN HOLE, SEAT PIN WITH HAMMER, PLACE COLLAR ON PIN, PLACE BUCKING BAR TO PIN, POSITION GUN TO PIN, AND SECURE COLLAR</p> <p>ENDS-WITH GUN AND BUCKING BAR IN HAND</p> <p>CONDITIONS-NO TIME INCLUDED TO GET/ASIDE FASTENER AND TOOLS</p>

DEFENSE WORK MEASUREMENT STANDARD TIME DATA ELEMENTS

DATA SOURCE	OCCUP- ATION	QUALITY	SOURCE CODE	DWMSTDP ELEMENT	TMU VALUE	OPERATION/ELEMENT DESCRIPTION
FFD	800	MAA	KSMRIH1	SNFRI09	703	RIVET(HI-SHEAR), INSTALL, FIRST STARTS-WITH GET RIVET INCLUDES-ALL MOTIONS NECESSARY TO POSITION RIVET IN HOLE, GET HAMMER, SEAT RIVET, ASIDE HAMMER, PLACE COLLAR ON RIVET, GET BUCKING BAR, POSITION TO RIVET, GET RIVET GUN, POSITION ON RIVET, DRIVE RIVET, AND ASIDE GUN ENDS-WITH ASIDE BUCKING BAR CONDITIONS-APPLICABLE TO COLLARED STEEL RIVET 3/32-3/16 INCH DIAMETER, NO TIME ALLOWED FOR SETUP OF RIVET GUN
FFD	800	MAA	KSMRIH2	SNFRI10	466	RIVET(HI-SHEAR), INSTALL, ADDITIONAL STARTS-WITH REGRASP OF RIVET IN HAND INCLUDES-ALL MOTIONS NECESSARY TO POSITION RIVET IN HOLE, STRIKE RIVET WITH HAMMER TO SEAT, REGRASP COLLAR, PLACE ON RIVET, POSITION GUN TO RIVET, POSITION BUCKING BAR AND DRIVE RIVET ENDS-WITH RIVET INSTALLED CONDITIONS-DOES NOT INCLUDE GET AND/OR ASIDE RIVET, COLLAR, HAMMER, GUN, AND BUCKING BAR. APPLICABLE TO COLLARED STEEL RIVET 3/32-3/16 INCH DIAMETER
FFD	800	MAA	KALSAB1	SNFRI11	525	RIVET, INSTALL, BLIND, PULLED, ALL TYPES, FIRST RIVET STARTS-WITH GET RIVET GUN AND RIVETS(S) INCLUDES-ALL MOTIONS NECESSARY TO PLACE RIVET IN GUN, MOVE RIVET TO HOLE, DRIVE RIVET, ASIDE GUN, GET CUTTERS, CUT STEM OF RIVET, ASIDE CUTTERS, GET FILE, AND FILE BURR OFF RIVET STEM ENDS-WITH ASIDE FILE CONDITIONS-NO TIME ALLOWED FOR SETUP OF RIVET GUN
FFD	800	MAA	KALSAB2	SNFRI12	445	RIVET, INSTALL, BLIND, PULLED, ALL TYPES, EACH ADDITIONAL RIVET STARTS-WITH RIVET AND RIVET GUN IN HAND INCLUDES-ALL MOTIONS NECESSARY TO PLACE RIVET IN GUN, PLACE RIVET IN HOLE, DRIVE RIVET, ASIDE GUN, GET CUTTERS, CUT STEM OF RIVET, ASIDE CUTTERS, GET FILE AND REMOVE BURR ENDS-WITH ASIDE FILE CONDITIONS-NO TIME INCLUDED TO GET/ASIDE FASTENER AND TOOLS
FFD	800	MAA	KALSOXX	SNFRKXX	VARIABLE	RIVET, KNOCK OUT, COLLARED FASTENER, ALUMINUM STARTS-WITH GET GUN WITH KNOCKER ATTACHED INCLUDES-ALL MOTIONS NECESSARY TO PLACE KNOCKER TO COLLAR, REMOVE COLLAR, ASIDE GUN, GET HAMMER, DRIVE FASTENER FLUSH WITH SURFACE, GET PUNCH, AND DRIVE FASTENER FROM HOLE ENDS-WITH ASIDE TOOLS COMOITIONS-APPLICABLE TO HI-SHEAR RIVETS, HI-LOCK FASTENERS, AND STUMP BOLTS CASE 01 FIRST COLLARED FASTENER 02 EACH ADDITIONAL COLLARED FASTENER (DOES NOT INCLUDE GET/ASIDE TOOLS)

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DEFENSE WORK MEASUREMENT STANDARD TIME DATA ELEMENTS

DATA SOURCE	OCCUP- ATION	QUALITY	SOURCE CODE	DWMSTD ELEMENT	TMU VALUE	OPERATION/ELEMENT DESCRIPTION
NAA	800	MUA	ONFRDXX	SNFRRXX	VARIABLE	<p>RIVET, REMOVE, SOLID, DRIVEN STARTS-WITH GET TOOL(S) INCLUDES-ALL MOTIONS NECESSARY TO SET UP TOOL(S), CUT RIVET HEAD OR TAIL, ASIDE CUTTING TOOL, GET TOOLS, AND PUNCH OUT RIVET ENDS-WITH ASIDE TOOL(S) CONDITIONS-APPLICABLE TO ALUMINUM OR MONEL RIVET 1/8-3/16 INCH DIAMETER</p> <p>548 CASE 01 FIRST RIVET, CUT WITH HAMMER AND CHISEL AND DRIVE RIVET OUT WITH HAMMER AND PUNCH</p> <p>254 02 EACH ADDITIONAL RIVET USING HAMMER, CHISEL AND PUNCH</p> <p>999 03 FIRST RIVET, CUT WITH POWER CHISEL AND DRIVE RIVET OUT WITH HAMMER AND PUNCH</p> <p>195 04 EACH ADDITIONAL RIVET USING POWER CHISEL, HAMMER, AND PUNCH</p> <p>990 05 FIRST RIVET, CUT WITH POWER CHISEL AND DRIVE RIVET OUT WITH POWER DRIFT</p> <p>217 06 EACH ADDITIONAL RIVET USING POWER CHISEL AND POWER DRIFT</p>
FFD	800	TAA	KSMTPO1	BPMTNXX	VARIABLE	<p>METAL, HEAT WITH DIMPLING DIE STARTS-WITH MALE AND FEMALE DIES IN CONTACT WITH METAL INCLUDES-ALL THE PROCESS TIME NECESSARY TO HEAT METAL ENOUGH TO DIMPLE WITHOUT CRACKING EDGES OF DIMPLE ENDS-WHEN HEAT IS TURNED OFF CONDITIONS-MAGNESIUM AND TITANIUM USED</p> <p>29 CASE 01 METAL .031 INCH THICK</p> <p>32 02 METAL .050 INCH THICK</p> <p>37 03 METAL .064 INCH THICK</p> <p>42 04 METAL .100 INCH THICK</p> <p>35 05 METAL ANY THICKNESS-.031 TO .100 INCH(AVERAGE OF TIMES)</p>
FFD	800	TAA	KSMTPRI	BPTRS01	257	<p>RIVET, SET WITH PNEUMATIC GUN, PROCESS TIME ONLY STARTS-WITH ACTUATION OF RIVET GUN SWITCH INCLUDES-ALL THE TIME NECESSARY TO SET ONE RIVET ENDS-WITH RELEASE OF SWITCH CONDITIONS-APPLICABLE TO COLLARED STEEL RIVET 3/32-3/16 INCH DIAMETER</p>
FFD	800	MAA	KSMJPD1	SSUOS01	3359	<p>DIMPLE MACHINE, SET UP(COLD) STARTS-WITH REACH TO GET ALLEN WRENCH INCLUDES-ALL THE MOTIONS NECESSARY TO GET ALLEN WRENCH AND MALE DIE, LOOSEN AND RUN OUT DIE SET SCREW, REMOVE DIE FROM MACHINE AND ASIDE DIE TO RACK, GET FEMALE DIE, LOOSEN AND RUN OUT SET SCREW, REMOVE AND ASIDE DIE TO RACK, GET PROPER DIE FROM RACK, PLACE IN MACHINE AND RUN IN AND TIGHTEN SET SCREW(MALE AND FEMALE DIE), ACTUATE RAM CLOSED, CHECK DIES FOR GAP, ACTUATE RAM OPEN, GET WRENCH AND LOOSEN RAM ADJUST NUT, ACTUATE RAM CLOSED, ADJUST GAP, OPEN DIMPLING RAM, GET AND PLACE SCRAP METAL OVER DIE, CLOSE AND OPEN DIMPLING RAM, REMOVE AND ASIDE SCRAP, GET RIVET AND PLACE IN DIMPLE HOLE, CHECK FOR PROPER SETTING, ASIDE RIVET, MAKE FINE ADJUSTMENTS ON DIE GAP, ASIDE WRENCH, GET WRENCH, RUN DOWN AND TIGHTEN JAM NUT, ASIDE WRENCH ENDS-WITH ASIDE WRENCH CONDITIONS-TIME IS ALLOWED FOR CHANGING DIES TO HOLE SIZE AND ADJUSTING FOR METAL THICKNESS</p>

DEFENSE WORK MEASUREMENT STANDARD TIME DATA ELEMENTS

DATA SOURCE	OCCUPATION	QUALITY	SOURCE CODE	DWMSTOP ELEMENT	TMU VALUE	OPERATION/ELEMENT DESCRIPTION
FFD	300	MAA	KSMJPD2	SSUGA01	1121	GAP(DIE),ADJUST(DIMPLING MACHINE=COLD) STARTS=WITH REACH TO GET WRENCH INCLUDES=ALL THE MOTIONS NECESSARY TO GET WRENCH AND LOOSEN DIE ADJUSTMENT JAM NUT, CLOSE DIMPLING RAM,ADJUST TO PROPER GAP,OPEN DIMPLING RAM,GET METAL SCRAP AND PLACE OVER MALE DIE,CLOSE RAM,OPEN RAM,REMOVE SCRAP FROM DIE AND ASIDE,GET RIVET AND PLACE IN RIVET HOLE,CHECK FOR PROPER SETTING,MAKE FINE ADJUSTMENTS TO DIE GAP,ASIDE RIVET AND WRENCH, GET WRENCH AND RUN DOWN AND TIGHTEN JAM NUT ENDS=WITH ASIDE WRENCH CONDITIONS=THIS ELEMENT COVERS DIE GAP SETTING ONLY
FFF	800	MAA	KSMJPD3	SSUMS01	4624	MACHINE(HOT DIMPLE),SET UP STARTS=WITH REACH TO GET WRENCH INCLUDES=ALL THE MOTIONS NECESSARY TO GET ALLEN WRENCH,LOOSEN HEATER RETAINING SCREW, REMOVE HEATER FROM DIE,SET UP DIMPLE MACHINE, GET AND PLACE HEATER ON DIE,RUN IN AND TIGHTEN CONTROL,ASIDE WRENCH,TURN HEATER ON AND OFF ENDS=WITH TURN HEATER OFF CONDITIONS=ELEMENT INCLUDES TIME TO CHANGE AND ADJUST DIE SET,REMOVE AND INSTALL HEATER DURING PROCESS=USED WHEN HOLE SIZE IN MACHINE IS NOT CORRECT FOR JOB=SEE ELEMENT 800 SSUDS01 FOR SET UP DIMPLE MACHINE
NAA	800	MAA	DTLDCXX	STLDFXX	VARIABLE	DIMPLE(COLD),FORM WITH HAND DIMPLER STARTS=WITH REACH TO VISE HANDLE INCLUDES=ALL MOTIONS NECESSARY TO OPEN VISE, GET MALE DIE,PLACE IN VISE,CLOSE VISE,GET PART,POSITION PART TO MALE DIE,GET FEMALE DIE, POSITION DIE TO PART,GET HAMMER,STRIKE FEMALE DIE FOUR BLOWS WITH HAMMER,PALM HAMMER AND DIE,ASIDE PART,ASIDE DIE AND HAMMER,OPEN VISE, REMOVE AND ASIDE MALE DIE,AND CLOSE VISE ENDS=WITH RELEASE OF VISE HANDLE CONDITIONS=APPLICABLE TO USE OF 3/32"-1/4" DIMPLE IN .016"-.064" STAINLESS STEEL, .025"-.051" 24S-O-T3-T4,.025"-.064" 52S,JR .J25"-.064" 61S-O-T4 804 CASE 01 FIRST OR SINGLE DIMPLE IN PART TO ONE SQUARE FOOT AREA(ONE OPERATOR) 201 02 EACH ADDITIONAL DIMPLE IN PART TO ONE SQUARE FOOT(ONE OPERATOR) 1356 03 FIRST OR SINGLE DIMPLE IN PART ONE TO NINE SQUARE FEET(TIME SHOWN IS FOR TWO OPERATORS) 308 04 EACH ADDITIONAL DIMPLE IN PART ONE TO NINE SQUARE FEET(TIME SHOWN IS FOR TWO OPERATORS)
NF	804	MAF	3337/38	MOHPPXX	VARIABLE	PIECES,POSITION TO ASSEMBLE PITTSBURGH LOCK SEAM STARTS=WITH SIMO REACH TO PIECES INCLUDES=ALL MOTIONS NECESSARY TO BRING PIECES TOGETHER,ALIGN,CHECK VISUALLY,AND STRIKE WITH HAND TO ASSEMBLE SEAM ENDS=WITH HAND IN CONTACT WITH SEAM 91 CASE 01 SMALL PIECES,TOTAL WEIGHT TO 10 POUNDS ENW 102 02 LARGE PIECES,TOTAL WEIGHT 10-60 POUNDS ENW

DEFENSE WORK MEASUREMENT STANDARD TIME DATA ELEMENTS

DATA SOURCE	OCCUP- ATION	QUALITY	SOURCE CODE	DWMSTOP ELEMENT	TMU VALUE	OPERATION/ELEMENT DESCRIPTION
NAA	807	MUA	AMRDFXX	SFACHXX	VARIABLE	<p>HOLE, CUT IN ALUMINUM TO .064 INCH THICKNESS, RECTANGULAR ACCESS HOLE</p> <p>STARTS-WITH GET MEASURING DEVICE</p> <p>INCLUDES-ALL MOTIONS NECESSARY TO GET MARKING INSTRUMENT, LAY OUT HOLE, MEASURE AND MARK FOR RADIUS PUNCH, CENTER PUNCH FOR RADIUS, SET UP AND PUNCH OUT CORNER RADIUS WITH TURRET PUNCH, CUT HOLE WITH PEXTO SHEAR, PLACE MATERIAL IN VISE, AND DEBURR WITH FILE AND EMERY CLOTH</p> <p>ENDS-WITH ACCESS HOLE CUT</p> <p>CONDITIONS-APPLICABLE TO CUTTING ALUMINUM MATERIAL SUCH AS DOUBLER OR FILLER</p> <p>CASE 01 CUT HOLE, PERIMETER TO 16 INCHES</p> <p>02 CUT HOLE, PERIMETER 16-28 INCHES</p> <p>03 CUT HOLE, PERIMETER 28-40 INCHES</p> <p>04 CUT HOLE, PERIMETER 40-52 INCHES</p>
					14330	
					22210	
					28580	
					34110	
NAA	807	MUA	AMRDFXX	SFADFX	VARIABLE	<p>DOUBLER (OR FILLER), FABRICATE, FLAT CIRCULAR</p> <p>STARTS-WITH GET MEASURING DEVICE</p> <p>INCLUDES-ALL MOTIONS NECESSARY TO GET MARKING INSTRUMENT; MEASURE MATERIAL FOR ROUGH CUT; POSITION MATERIAL TO SHEAR, TURN AND WALK ONE PACE TO SWITCH, TURN SWITCH ON, SHEAR MATERIAL (TWO CUTS), AND TURN MACHINE OFF, OR CLAMP MATERIAL AND SHEAR ON MANUAL SHEAR (TWO CUTS); WALK BEHIND MACHINE; PICK UP MATERIAL; LAY OUT FOR CIRCULAR CUT; POSITION MATERIAL TO BEVERLY SHEAR, CUT CIRCUMFERENCE OF CIRCULAR DOUBLER, ASIDE SCRAP, OR SET UP AND CUT CIRCULAR SHAPE ON BANDSAW; DRESS CIRCUMFERENCE ON SANDER; AND FINAL DRESS WITH HAND FILE AND EMERY CLOTH.</p> <p>AS REQUIRED-SPLIT DOUBLER WITH SHEARS OR BANDSAW AND DRESS SPLIT SURFACES.</p> <p>ENDS-WITH DOUBLER FABRICATED</p> <p>CONDITIONS-(1) MATERIAL IS ALUMINUM TO .064 INCH THICKNESS. (2) WALKING TO AND FROM MACHINES NOT INCLUDED EXCEPT AS INDICATED. (3) ROUGH CUT COMPUTED AT 90 PER CENT USE OF POWER SHEAR AND 10 PER CENT USE OF MANUAL SHEAR. (4) FINAL CUT OF CIRCUMFERENCE COMPUTED AT 90 PER CENT USE OF BEVERLY SHEAR AND 10 PER CENT USE OF BANDSAW.</p> <p>CASE 01 FABRICATE CIRCULAR DOUBLER TO 4 INCHES DIAMETER</p> <p>02 FABRICATE CIRCULAR DOUBLER 4-7 INCHES DIAMETER</p> <p>03 FABRICATE CIRCULAR DOUBLER 7-10 INCHES DIAMETER</p> <p>04 FABRICATE CIRCULAR DOUBLER 10-13 INCHES DIAMETER</p> <p>05 FABRICATE CIRCULAR DOUBLER 13-16 INCHES DIAMETER</p> <p>06 FABRICATE AND SPLIT CIRCULAR DOUBLER TO 4 INCHES DIAMETER</p> <p>07 FABRICATE AND SPLIT CIRCULAR DOUBLER 4-7 INCHES DIAMETER</p> <p>08 FABRICATE AND SPLIT CIRCULAR DOUBLER 7-10 INCHES DIAMETER</p> <p>09 FABRICATE AND SPLIT CIRCULAR DOUBLER 10-13 INCHES DIAMETER</p> <p>10 FABRICATE AND SPLIT CIRCULAR DOUBLER 13-16 INCHES DIAMETER</p>
					9640	
					13830	
					19100	
					22460	
					26860	
					14140	
					19240	
					25670	
					30000	
					35360	

DEFENSE WORK MEASUREMENT STANDARD TIME DATA ELEMENTS

DATA SOURCE	CCUP- ATION	QUALITY	SOURCE CODE	DWMSTD ELEMENT	TMU VALUE	OPERATION/ELEMENT DESCRIPTION
NAA	807	MUA	AMRDFXX	SFAFFXX	VARIABLE	<p>FILLER (OR DOUBLER), FABRICATE, FLAT RECTANGULAR, TO .064 INCH THICK STARTS-WITH GET MEASURING DEVICE INCLUDES-ALL MOTIONS NECESSARY TO GET MARKING INSTRUMENT; LAY OUT RECTANGULAR SHAPE ON MATERIAL; TURN AND WALK TO SWITCH, TURN SWITCH ON, SHEAR MATERIAL (TWO CUTS), AND TURN MACHINE OFF, OR CLAMP MATERIAL AND CUT ON MANUAL SHEAR (TWO CUTS); WALK BEHIND MACHINE; PICK UP MATERIAL; DEBURR EDGES AND RADIUS CORNERS WITH POWER SANDER; AND FINAL DRESS WITH FILE AND EMERY CLOTH. AS REQUIRED-SPLIT FILLER ON SHEAR OR BANDSAW, DEBURR WITH POWER SANDER, AND FINAL DRESS WITH FILE AND EMERY CLOTH. ENDS-WITH FILLER FABRICATED. CONDITIONS-(1) TIME FOR WALKING TO AND FROM MACHINES INCLUDED ONLY AS INDICATED. (2) USE OF SHEARS COMPUTED AT 90 PER CENT FOR POWER AND 10 PER CENT FOR MANUAL SHEARS. (3) SPLITTING FILLERS IS COMPUTED AT 80 PER CENT WITH BANDSAW AND 20 PER CENT WITH SHEARS. (4) FIVE PER CENT OF THE SPLIT FILLERS ARE DEBURRED BY POWER SANDER.</p> <p>CASE 01 FABRICATE RECTANGULAR FILLER WITH PERIMETER TO 16 INCHES 02 FABRICATE RECTANGULAR FILLER WITH PERIMETER 16-28 INCHES 03 FABRICATE RECTANGULAR FILLER WITH PERIMETER 28-40 INCHES 04 FABRICATE RECTANGULAR FILLER WITH PERIMETER 40-52 INCHES 05 FABRICATE RECTANGULAR FILLER WITH PERIMETER 52-64 INCHES 06 FABRICATE RECTANGULAR FILLER WITH PERIMETER 64-76 INCHES 07 FABRICATE RECTANGULAR FILLER WITH PERIMETER 76-88 INCHES 08 FABRICATE RECTANGULAR FILLER WITH PERIMETER 88-100 INCHES 09 FABRICATE AND SPLIT RECTANGULAR FILLER WITH PERIMETER TO 16 INCHES 10 FABRICATE AND SPLIT RECTANGULAR FILLER WITH PERIMETER 16-28 INCHES 11 FABRICATE AND SPLIT RECTANGULAR FILLER WITH PERIMETER 28-40 INCHES 12 FABRICATE AND SPLIT RECTANGULAR FILLER WITH PERIMETER 40-52 INCHES 13 FABRICATE AND SPLIT RECTANGULAR FILLER WITH PERIMETER 52-64 INCHES 14 FABRICATE AND SPLIT RECTANGULAR FILLER WITH PERIMETER 64-76 INCHES 15 FABRICATE AND SPLIT RECTANGULAR FILLER WITH PERIMETER 76-88 INCHES 16 FABRICATE AND SPLIT RECTANGULAR FILLER WITH PERIMETER 88-100 INCHES</p>
					8520	
					10580	
					13180	
					15440	
					17500	
					19550	
					21610	
					23670	
					13090	
					16240	
					20000	
					23360	
					26520	
					29660	
					32010	
					35960	
NAA	807	MUA	AMRDFXX	SFAHCXX	VARIABLE	<p>HOLE, CUT IN ALUMINUM TO .064 INCH THICKNESS, CIRCULAR ACCESS HOLE STARTS-WITH GET MEASURING DEVICE INCLUDES-ALL MOTIONS NECESSARY TO GET MARKING INSTRUMENT, LAY OUT HOLE, CENTER PUNCH, SET UP AND PUNCH HOLE WITH TURRET PUNCH, CUT HOLE WITH COMPOUND LEVER SNIPS, GET POWER TOOL, INSTALL ROTARY FILE, FINISH HOLE, ASIDE TOOL, AND DRESS HOLE WITH FILE AND EMERY CLOTH ENDS-WITH HOLE CUT</p> <p>CASE 01 CUT HOLE, 2-5 INCHES DIAMETER 02 CUT HOLE, 5-8 INCHES DIAMETER 03 CUT HOLE, 8-11 INCHES DIAMETER 04 CUT HOLE, 11-14 INCHES DIAMETER</p>
					21900	
					32140	
					40450	
					46900	

DEFENSE WORK MEASUREMENT STANDARD TIME DATA ELEMENTS

DATA SOURCE	OCCUPATION	QUALITY	SOURCE CODE	DWMSTOP ELEMENT	TMU VALUE	OPERATION/ELEMENT DESCRIPTION
FFD	807	MAA	KSMJPF1	4JPTP01	922	TOOLS, PREPARE FOR JO-BOLT INSTALLATION STARTS-WITH TURN TO TOOL CARRIER OR TOOLBOX INCLUDES-ALL MOTIONS NECESSARY TO GET TRAY FROM CARRIER; GET HOSE GAUGE, GUN, AND JO-BOLT SET FROM CARRIER AND PLACE IN TRAY; GET TRAY; TURN TO WORK AREA; PLACE TRAY IN WORK AREA; GET GUN; GET SET; INSTALL SET ON GUN; CONNECT AND DISCONNECT AIR HOSE; REMOVE SET FROM GUN; PLACE GUN AND SET IN TRAY; GET TRAY; TURN TO CARRIER OR TOOLBOX; AND PLACE TOOLS AND TRAY IN CARRIER ENDS-WITH RELEASE OF TRAY
DNA	807	MBA	AMRSJ01	SJPC101	1330	CARTRIDGE (SEALANT), INSTALL IN AND REMOVE FROM GUN STARTS-WITH GET GUN INCLUDES-ALL MOTIONS NECESSARY TO REMOVE BACK OF GUN, GET CARTRIDGE, INSERT IN GUN, REPLACE BACK OF GUN, INSTALL AND CUT TIP, REMOVE BACK OF GUN, REMOVE AND ASIDE CARTRIDGE, CLEAN GUN, AND REPLACE BACK OF GUN ENDS-WITH ASIDE GUN CONDITIONS-APPLICABLE TO AIR OPERATED SEMCO GUN AND TWO OUNCE CARTRIDGE
MAA	807	MAA	AMRQRXX	MMFGRXX	VARIABLE	GROMMET (AND STUD), REMOVE, OZUS FASTENER, MANUAL MOTIONS ONLY STARTS-WITH GET PORTABLE DRILL INCLUDES-ALL MOTIONS NECESSARY TO GET CUTTER, INSTALL IN DRILL CHUCK, POSITION CUTTER TO GROMMET, ASIDE CUTTER, GET BAR, POSITION UNDER STUD HEAD, GET HAMMER, STRIKE STUD, ASIDE BAR AND STUD, GET CHISEL, POSITION TO GROMMET, DRIVE GROMMET OUT WITH HAMMER AND CHISEL, ASIDE HAMMER AND CHISEL, GET ROTARY FILE, INSTALL IN DRILL CHUCK, AND REMOVE ROTARY FILE ENDS-WITH ASIDE DRILL AND ROTARY FILE CONDITIONS-PROCESS TIME FOR CUTTING AND FILING NOT INCLUDED CASE 01 FIRST GROMMET AND STUD 02 EACH ADDITIONAL GROMMET AND STUD

2155
712

DEFENSE WORK MEASUREMENT STANDARD TIME DATA ELEMENTS

DATA SOURCE	OCCUP- ATION	QUALITY	SOURCE CODE	DWMSTD ELEMENT	TMU VALUE	OPERATION/ELEMENT DESCRIPTION
NAA	807	MUA	ONFSDXX	SNFCCXX	VARIABLE	<p>COLLAR,CUT FROM DRAW TYPE SHEAR PIN STARTS=WITH GET TOOL(S) TO CUT COLLAR INCLUDES=ALL MOTIONS NECESSARY TO POSITION TOOL TO COLLAR,CUT COLLAR,AND ASIDE TOOL(S). CASES 01-08 ALSO INCLUDE DRIVE PIN OUT WITH HAMMER AND DRIFT. ENDS=WITH RELEASE OF TOOLS CONDITIONS=ADDITIONAL PIECES DO NOT INCLUDE GET AND ASIDE TOOLS.APPLICABLE TO HUCK PULL TYPE SHEAR PIN OR SIMILAR TO 3/8 INCH DIAMETER,ANY LENGTH</p> <p>616 CASE 01 CUT FIRST COLLAR WITH HUCK GUN MODEL 352,200,OR SIMILAR AND DRIVE OUT PIN</p> <p>358 02 CUT EACH ADDITIONAL COLLAR WITH HUCK GUN AND DRIVE OUT PIN</p> <p>621 03 CUT FIRST COLLAR WITH BOLT CUTTER AND DRIVE OUT PIN(BOLT CUTTER EQUIPPED WITH JAWS SPECIALLY DESIGNED TO CUT HUCK COLLAR)</p> <p>317 04 CUT EACH ADDITIONAL COLLAR WITH BOLT CUTTER AND DRIVE OUT PIN</p> <p>1081 05 CUT FIRST COLLAR WITH RIVET GUN AND CHISEL,DRIVE OUT PIN(INCLUDES ATTACH AND REMOVE CHISEL)</p> <p>294 06 CUT EACH ADDITIONAL COLLAR WITH RIVET GUN AND CHISEL,AND CRIVE OUT PIN</p> <p>935 07 CUT FIRST COLLAR WITH HAMMER AND CHISEL,AND DRIVE PIN OUT</p> <p>611 08 CUT EACH ADDITIONAL COLLAR WITH HAMMER AND CHISEL,AND DRIVE PIN OUT</p> <p>186 09 CUT FIRST COLLAR WITH HUCK GUN MODEL 352,200 OR SIMILAR</p> <p>125 10 CUT EACH ADDITIONAL COLLAR WITH HUCK GUN</p> <p>171 11 CUT FIRST COLLAR WITH BOLT CUTTER WITH JAWS SPECIALLY DESIGNED FOR REMOVAL OF HUCK COLLARS</p> <p>84 12 CUT EACH ADDITIONAL COLLAR WITH BOLT CUTTER</p> <p>641 13 CUT FIRST COLLAR WITH RIVET GUN AND CHISEL(INCLUDES ATTACH AND REMOVE CHISEL BLADE)</p> <p>45 14 CUT EACH ADDITIONAL COLLAR WITH RIVET GUN AND CHISEL</p> <p>680 15 CUT FIRST COLLAR WITH HAMMER AND CHISEL</p> <p>472 16 CUT EACH ADDITIONAL COLLAR WITH HAMMER AND CHISEL</p>
NAA	807	MAA	AMRAN17	SNFFI01	497	<p>FASTENER(ANCHORED),INSTALL MISSING FLOATING OR CHANNEL NUT ONLY,ALL TYPES,FIRST PIECE STARTS=WITH GET NUT PLATE ASSEMBLY INCLUDES=ALL MOTIONS NECESSARY TO GET NUT PLATE ASSEMBLY,POSITION FOR NUT REMOVAL,GET DUCK BILL PLIERS,BEND TWO TABS WITH PLIERS, ASIDE PLATE(NUT DROPS TO BENCH),GET NUT, POSITION TO EXISTING ATTACHED PLATE,HOLD FIRMLY IN PLACE,BEND TABS AROUND PLATE,ASIDE PLIERS,CHECK ALIGNMENT AND FREENESS OF NUT ENDS=WITH RELEASE NUT</p>
NAA	807	MAA	AMRAN18	SNFFI02	454	<p>FASTENER(ANCHORED),INSTALL MISSING FLOATING OR CHANNEL NUT ONLY,ALL TYPES,ADDITIONAL PIECE STARTS=WITH GET NUT PLATE ASSEMBLY INCLUDES=ALL MOTIONS NECESSARY TO GET NUT PLATE ASSEMBLY,POSITION FOR NUT REMOVAL, USE DUCK BILL PLIERS TO BEND TWO TABS,ASIDE PLATE(NUT DROPS TO BENCH),GET NUT,POSITION TO EXISTING ATTACHED PLATE,HOLD FIRMLY IN PLACE AND BEND TWO TABS OVER PLATE,ASIDE PLIERS, CHECK ALIGNMENT AND FREENESS OF NUT ENDS=WITH RELEASE NUT</p>

DEFENSE WORK MEASUREMENT STANDARD TIME DATA ELEMENTS

DATA SOURCE	OCCUP- ATION	QUALITY	SOURCE CODE	DWMSTD ELEMENT	TMU VALUE	OPERATION/ELEMENT DESCRIPTION
YAA	807	MUA	AMRAN34	SNFF103	3610	FASTENER (ANCHORED), INSTALL CAMLOC OR AIRLOC RECEPTACLE, OR DZUS SPRING, 1-MAN OPERATION, FIRST PIECE STARTS-WITH GET CLECO AND CLECO PLIERS INCLUDES-ALL MOTIONS NECESSARY TO INSTALL AND REMOVE CLECO (PLIER OR WING TYPE), HOLD FASTENER IN PLACE, INSTALL AND BUCK RIVET (RIVET GUN OR PORTABLE PNEUMATIC "C" SQUEEZE), MICROSHAVE RIVET, PLUG IN AND OUT AIR HOSE FOR REAM, REAM HOLE FOR MISALIGNMENT, PLUG IN AND OUT AIR HOSE (DUE TO REAM), INSTALL AND BUCK SECOND RIVET, MICROSHAVE RIVET ENDS-WITH ASIDE MICROSHAVER CONDITIONS-PLUG IN AND OUT FOR REAM, REAM HOLE FOR ALIGNMENT AND PLUG IN AND OUT AIR HOSE TO GUN DUE TO REAM ARE REQUIRED 10 PERCENT OF THE TIME. MICROSHAVE RIVETS REQUIRED 75 PERCENT OF THE TIME. MICROSHAVER IS PFAHLER MODEL 33A OR MICRO MILLER MODEL BRM
NAA	807	MUA	AMRAN35	SNFF104	1840	FASTENER (ANCHORED), INSTALL CAMLOC OR AIRLOC RECEPTACLE, OR DZUS SPRING, 1-MAN OPERATION, ADDITIONAL PIECE STARTS-WITH GET CLECO AND CLECO PLIERS INCLUDES-ALL MOTIONS NECESSARY TO INSTALL AND REMOVE CLECO (PLIER OR WING TYPE), HOLD FASTENER IN PLACE, INSTALL AND BUCK RIVET (RIVET GUN OR PORTABLE PNEUMATIC "C" SQUEEZE), MICROSHAVE RIVET, PLUG IN AND OUT AIR HOSE FOR REAM, REAM HOLE FOR MISALIGNMENT, PLUG IN AND OUT AIR HOSE (DUE TO REAM), INSTALL AND BUCK SECOND RIVET, MICROSHAVE RIVET ENDS-WITH ASIDE MICROSHAVER CONDITIONS-PLUG IN AND OUT AIR HOSE FOR REAM, REAM HOLE FOR ALIGNMENT AND PLUG IN AND OUT AIR HOSE TO GUN DUE TO REAM ARE REQUIRED 10 PERCENT OF THE TIME. MICROSHAVE RIVETS REQUIRED 75 PERCENT OF THE TIME. MICROSHAVER IS PFAHLER MODEL 33A OR MICRO MILLER MODEL BRM
NAA	807	MUA	AMRAN36	SNFF105	5770	FASTENER (ANCHORED), INSTALL CAMLOC OR AIRLOC RECEPTACLE, OR DZUS SPRING, 2-MAN OPERATION, FIRST PIECE STARTS-WITH GET CLECO AND CLECO PLIERS INCLUDES-ALL MOTIONS NECESSARY TO INSTALL AND REMOVE CLECO (PLIER OR WING TYPE), HOLD FASTENER IN PLACE, INSTALL AND BUCK RIVET, MICROSHAVE RIVET, PLUG IN AND OUT AIR HOSE FOR REAM, REAM HOLE FOR MISALIGNMENT, PLUG IN AND OUT AIR HOSE TO GUN DUE TO REAM, INSTALL AND BUCK SECOND RIVET, MICROSHAVE RIVET ENDS-WITH ASIDE MICROSHAVER CONDITIONS-PLUG IN AND OUT AIR HOSE FOR REAM, REAM HOLE, AND PLUG IN AND OUT AIR HOSE TO GUN DUE TO REAM ARE REQUIRED 10 PER- CENT OF THE TIME. MICROSHAVE RIVETS REQUIRED 75 PERCENT OF THE TIME. MICROSHAVER MODEL 33A OR MICRO MILLER MODEL BRM

DEFENSE WORK MEASUREMENT STANDARD TIME DATA ELEMENTS

DATA SOURCE	OCCUP- ATION	QUALITY	SOURCE CODE	DWMSTDP ELEMENT	TMU VALUE	OPERATION/ELEMENT DESCRIPTION
NAA	807	MUA	AMRAN37	SNFF106	3250	FASTENER(ANCHORED), INSTALL CAMLOC OR AIRLOC RECEPTACLE OR OZUS SPRING, 2-MAN OPERATION, ADDITIONAL STARTS-WITH GET CLECO AND CLECO PLIERS INCLUDES-ALL THE MOTIONS NECESSARY TO INSTALL AND REMOVE CLECO(PLIER OR WING TYPE), HOLD FASTENER IN PLACE, PLUG IN AND OUT AIR HOSE FOR REAM, REAM HOLE FOR MISALIGNMENT, PLUG IN AND OUT AIR HOSE TO GUN, INSTALL AND BUCK SECOND RIVET, MICROSHAVE RIVET ENDS-WITH ASIDE MICROSHAPER CONDITIONS-PLUG IN AND OUT AIR HOSE FOR REAM, REAM HOLE, AND PLUG IN AND OUT AIR HOSE TO GUN DUE TO REAM ARE REQUIRED 10 PERCENT OF THE TIME. MICROSHAVE RIVETS REQUIRED 75 PERCENT OF THE TIME. MICROSHAPER MODEL PFAHLER MODEL 33A OR MICRO MILLER MODEL BRM.
NAA	807	MUA	CMRAN01	SNFF107	18850	FASTENER(ANCHORED), INSTALL CHANNEL NUT ASSEMBLY WITH BLIND RIVETS, FIRST OR SINGLE THREE-NUT LENGTH STARTS-WITH GET LENGTH OF CHANNEL INCLUDES-ALL MOTIONS NECESSARY TO CUT CHANNEL TO LENGTH WITH COMPOUND LEVER SNIPS, DEBURR CHANNEL END WITH FILE, MEASURE AND MARK HOLE LOCATIONS, CENTER PUNCH HOLE LOCATIONS, SET UP PORTABLE DRILL, DRILL HOLES, DEBURR HOLES WITH HAND HELD DRILL BIT, INSTALL TEMPORARY SCREWS WITH SCREWDRIVER, SET UP RIVET GUN, INSTALL BLIND RIVETS AND REMOVE TEMPORARY SCREWS ENDS-WITH ASIDE SCREWS AND SCREWDRIVER
NAA	807	MUA	CMRANXX	SNFF108	4530	FASTENER(ANCHORED), INSTALL CHANNEL NUT ASSEMBLY WITH BLIND RIVETS, EACH ADDITIONAL THREE-NUT LENGTH STARTS-WITH MEASURE FOR ADDITIONAL HOLES INCLUDES-ALL MOTIONS NECESSARY TO MEASURE AND MARK FOR ADDITIONAL HOLES, CENTER PUNCH, DRILL AND DEBURR ADDITIONAL HOLES, SECURE WITH SCREW, INSTALL BLIND RIVET AND REMOVE SCREW ENDS-WITH ASIDE SCREW
NAA	807	MUA	CMRAN03	SNFF109	14970	FASTENER(ANCHORED), INSTALL CHANNEL NUT ASSEMBLY TO EXISTING HOLES WITH BLIND RIVETS, FIRST OR SINGLE THREE-NUT LENGTH STARTS-WITH GET LENGTH OF CHANNEL INCLUDES-ALL MOTIONS NECESSARY TO CUT CHANNEL TO LENGTH WITH COMPOUND LEVER SNIPS, DEBURR CHANNEL END WITH FILE, INSTALL TWO TEMPORARY SCREWS WITH SCREWDRIVER, SET UP DRILL, DRILL HOLES FOR RIVETS, COUNTERSINK HOLES, INSTALL TWO BLIND RIVETS, AND REMOVE TEMPORARY SCREWS ENDS-WITH ASIDE SCREWS AND SCREWDRIVER
NAA	807	MUA	CMRAN04	SNFF110	2880	FASTENER(ANCHORED), INSTALL CHANNEL NUT ASSEMBLY TO EXISTING HOLES WITH BLIND RIVETS, EACH ADDITIONAL THREE-NUT LENGTH STARTS-WITH INSTALL ONE TEMPORARY SCREW INCLUDES-ALL MOTIONS NECESSARY TO DRILL AND COUNTERSINK ONE HOLE, INSTALL BLIND RIVET, AND REMOVE TEMPORARY SCREW ENDS-WITH ASIDE SCREW

DEFENSE WORK MEASUREMENT STANDARD TIME DATA ELEMENTS

DATA SOURCE	OCCUP- ATION	QUALITY	SOURCE CODE	OWMSTOP ELEMENT	TMU VALUE	OPERATION/ELEMENT DESCRIPTION
NAA	807	MUA	AMRAN30	SNFFI11	5390	<p>FASTENER (ANCHORED), INSTALL NUT PLATE, 1-MAN OPERATION, ALL TYPES, FIRST PIECE</p> <p>STARTS-WITH GET TOOLS</p> <p>INCLUDES-ALL MOTIONS NECESSARY TO SECURE FASTENER WITH SCREW, INSTALL RIVET (WITH RIVET GUN AND BUCKING BAR OR PORTABLE PNEUMATIC "C" SQUEEZE), MICROSHAVE RIVET, INSTALL ADDITIONAL RIVET, PLUG IN AND OUT AIR HOSE FOR REAM, REAM HOLE FOR MISALIGNMENT, PLUG IN AND OUT AIR HOSE DUE TO REAM, MICROSHAVE SECOND RIVET</p> <p>ENDS-WITH ASIDE MICROSHAVER</p> <p>CONDITIONS-REAM HOLE FOR MISALIGNMENT REQUIRED 10 PERCENT OF THE TIME, MICROSHAVE RIVETS REQUIRED 75 PERCENT OF THE TIME, MICROSHAVER MODEL 33A OR MICRO MILLER MODEL BRM.</p>
NAA	807	MUA	AMRAN31	SNFFI12	3180	<p>FASTENER (ANCHORED), INSTALL NUT PLATE, 1-MAN OPERATION, ALL TYPES, ADDITIONAL</p> <p>STARTS-WITH GET SCREW TO SECURE FASTENER</p> <p>INCLUDES-ALL MOTIONS NECESSARY TO SECURE FASTENER WITH SCREW, INSTALL RIVETS, MICROSHAVE RIVETS, AND REAM HOLE TO CORRECT MISALIGNMENT AS NECESSARY</p> <p>ENDS-WITH ASIDE MICROSHAVER</p> <p>CONDITIONS-NO TIME INCLUDED FOR TOOL SETUP. REAM HOLE FOR MISALIGNMENT REQUIRED 10 PERCENT OF THE TIME, MICROSHAVE RIVETS REQUIRED 75 PERCENT OF THE TIME, MICROSHAVER MODEL 33A OR MICRO MILLER MODEL BRM USED.</p>

DEFENSE WORK MEASUREMENT STANDARD TIME DATA ELEMENTS

DATA SOURCE	OCCUP- ATION	QUALITY	SOURCE CODE	DWMSTOP ELEMENT	TMU VALUE	OPERATION/ELEMENT DESCRIPTION
AAA	807	MUA	AMRANXX	SNFFPXX	VARIABLE	FASTENER (ANCHORED), PREPARE HOLE AND INSTALL STARTS-WITH MEASURE FOR HOLE LOCATION INCLUDES-ALL MOTIONS NECESSARY TO MEASURE AND MARK FOR HOLE LOCATION, CENTER PUNCH LOCATION, DRILL HOLE, DEBURR HOLE, SECURE NUT PLATE WITH SCREW, DRILL HOLE, INSTALL FIRST RIVET; DRILL HOLE, INSTALL ADDITIONAL RIVET; AND REMOVE SCREW ENDS-WITH ASIDE TOOLS
					16780	CASE 01 PREPARE HOLE AND INSTALL NUT PLATE, ALL TYPES, FIRST PIECE
					5140	02 PREPARE HOLE AND INSTALL NUT PLATE, ALL TYPES, ADDITIONAL PIECE
					19690	03 PREPARE HOLE AND INSTALL NUT PLATE, ALL TYPES, 2-MAN OPERATION, FIRST PIECE
					7300	04 PREPARE HOLE AND INSTALL NUT PLATE, ALL TYPES, 2-MAN OPERATION, ADDITIONAL PIECE
					16480	05 PREPARE HOLE AND INSTALL CAMLOC JR AIRLOC RECEPTACLE OR DZUS SPRING, ALL TYPES, FIRST PIECE
					4550	06 PREPARE HOLE AND INSTALL CAMLOC OR AIRLOC RECEPTACLE OR DZUS SPRING, ALL TYPES, ADDITIONAL PIECE
					18780	07 PREPARE HOLE AND INSTALL CAMLOC JR AIRLOC RECEPTACLE OR DZUS SPRING, ALL TYPES, 2-MAN OPERATION, FIRST PIECE
					6220	08 PREPARE HOLE AND INSTALL CAMLOC OR AIRLOC RECEPTACLE OR DZUS SPRING, ALL TYPES, 2-MAN OPERATION, ADDITIONAL
					2200	09 PREPARE HOLE AND INSTALL FLAT HEAD RIV-NUT, ALL SIZES, FIRST PIECE
					1070	10 PREPARE HOLE AND INSTALL FLAT HEAD RIV-NUT, ALL SIZES, ADDITIONAL PIECE
					4710	11 PREPARE HOLE AND INSTALL FLUSH-HEAD RIV-NUT, ALL SIZES, FIRST PIECE
					1190	12 PREPARE HOLE AND INSTALL FLUSH-HEAD RIV-NUT, ALL SIZES, ADDITIONAL PIECE
					2480	13 PREPARE HOLE AND INSTALL FLAT HEAD DILL NUT, ALL SIZES, FIRST PIECE
					1250	14 PREPARE HOLE AND INSTALL FLAT HEAD DILL NUT, ALL SIZES, ADDITIONAL PIECE
					4990	15 PREPARE HOLE AND INSTALL FLUSH-HEAD DILL NUT, ALL SIZES, FIRST PIECE
					1370	16 PREPARE HOLE AND INSTALL FLUSH-HEAD DILL NUT, ALL SIZES, ADDITIONAL PIECE

DEFENSE WORK MEASUREMENT STANDARD TIME DATA ELEMENTS

DATA SOURCE	OCCUP- ATTION	QUALITY	SOURCE CODE	DWMSTD ELEMENT	TMU VALUE	OPERATION/ELEMENT DESCRIPTION
NAA	807	MUA	AMRRARXX	SNFFRXX	VARIABLE	FASTENER(ANCHORED), REPLACE STARTS-WITH REACH TO TOOL OR FASTENER INCLUDES-ALL MOTIONS REQUIRED TO REMOVE AND INSTALL VARIOUS TYPES OF ANCHORED FASTENERS ENDS-WITH REPLACEMENT FASTENER INSTALLED CASE 01 REMOVE AND INSTALL NUT PLATE, 1-MAN OPERATION, ALL TYPES, FIRST PIECE 7037 3882 02 REMOVE AND INSTALL NUT PLATE, 1-MAN OPERATION, ALL TYPES, ADDITIONAL PIECE 9677 03 REMOVE AND INSTALL NUT PLATE, ALL TYPES, 2-MAN OPERATION, FIRST PIECE 5782 04 REMOVE AND INSTALL NUT PLATE, ALL TYPES, 2-MAN OPERATION, ADDITIONAL PIECE 5257 05 REMOVE AND INSTALL CAMLOC OR AIRLOC RECEPTACLE OR OZUS SPRING, ALL TYPES, 1-MAN OPERATION, FIRST PIECE 2542 06 REMOVE AND INSTALL CAMLOC OR AIRLOC RECEPTACLE OR OZUS SPRING, ALL TYPES, 1-MAN OPERATION, ADDITIONAL PIECE 7417 07 REMOVE AND INSTALL CAMLOC OR AIRLOC RECEPTACLE OR OZUS SPRING, ALL TYPES, 2-MAN OPERATION, FIRST PIECE 3952 08 REMOVE AND INSTALL CAMLOC OR AIRLOC RECEPTACLE OR OZUS SPRING, ALL TYPES, 2-MAN OPERATION, ADDITIONAL PIECE 1158 09 REMOVE AND INSTALL RIV-NUT, ALL TYPES, FIRST PIECE 804 10 REMOVE AND INSTALL RIV-NUT, ALL TYPES, ADDITIONAL PIECE 1665 11 REMOVE AND INSTALL DILL NUT, ALL TYPES FIRST PIECE 1456 12 REMOVE AND INSTALL DILL NUT, ALL TYPES ADDITIONAL PIECE 726 13 REMOVE AND INSTALL FLOATING OR CHANNEL NUT ONLY, FIRST PIECE 635 14 REMOVE AND INSTALL FLOATING OR CHANNEL NUT ONLY, ADDITIONAL PIECE 17699 15 REMOVE AND INSTALL CHANNEL NUT ASSEMBLY THREE-NUT LENGTH OF CHANNEL, FIRST 3787 16 REMOVE AND INSTALL CHANNEL NUT ASSEMBLY, THREE-NUT LENGTH OF CHANNEL, ADDITIONAL
NAA	807	MBA	AMRONXX	SNFGIXX	VARIABLE	GROMMET (CAMLOC), INSTALL WITH SNAP RING STARTS-WITH GET SNAP RING TOOL INCLUDES-ALL MOTIONS NECESSARY TO REMOVE RUBBER PROTECTIVE KNOB, GET MANDREL, GET SNAP RING, POSITION SNAP RING ON MANDREL, POSITION SNAP RING TOOL OVER MANDREL, GET GROMMET, POSITION TO HOLE, INSTALL SNAP RING ON GROMMET, AND PLACE RUBBER PROTECTIVE KNOB ON TOOL ENDS-WITH ASIDE TOOLS CONDITIONS-APPLICABLE TO 4002 GROMMET SERIES WITH R4G OR 40G26-1 SNAP RINGS 744 CASE 01 FIRST GROMMET 311 02 EACH ADDITIONAL GROMMET
NAA	807	MAA	AMRQRXX	SNFGRXX	VARIABLE	GROMMET (CAMLOC), REMOVE, SECURED WITH SNAP RING STARTS-WITH GET TOOL TO REMOVE SNAP RING INCLUDES-ALL MOTIONS NECESSARY TO REMOVE SNAP RING USING POINTED TOOL AND PLIERS, AND TO REMOVE GROMMET ENDS-WITH ASIDE GROMMET 752 CASE 01 FIRST GROMMET AND SNAP RING 672 02 EACH ADDITIONAL GROMMET AND SNAP RING

DEFENSE WORK MEASUREMENT STANDARD TIME DATA ELEMENTS

DATA SOURCE	CCUP- ATION	QUALITY	SOURCE CODE	DWMSTOP ELEMENT	TMU VALUE	OPERATION/ELEMENT DESCRIPTION
NAA	807	MAA	AMRQNX	SNFIGXX	VARIABLE	<p>GROMMET (AND STUD), INSTALL, DZUS FASTENER, USING PNEUMATIC FLOOR DIMPLER</p> <p>STARTS-WITH GET MATERIAL</p> <p>INCLUDES-ALL MOTIONS NECESSARY TO MOVE MATERIAL TO BOTTOM ANVIL OF DIMPLER, GET GROMMET, POSITION GROMMET IN HOLE, POSITION MATERIAL TO BOTTOM ANVIL, GET STUD, POSITION IN GROMMET, ACTUATE MACHINE WITH FOOT PEDAL, AND CHECK SECURITY OF INSTALLATION</p> <p>ENDS-WITH ASIDE MATERIAL</p> <p>CASE 01 FIRST DZUS FASTENER</p> <p>02 EACH ADDITIONAL DZUS FASTENER IN SAME PIECE OF MATERIAL</p>
					315	
					255	
NAA	807	MAA	SMFNNXX	SNFINXX	VARIABLE	<p>NUT (CHANNEL), INSTALL</p> <p>STARTS-WITH GET CHANNEL NUT ASSEMBLY</p> <p>INCLUDES-ALL MOTIONS NECESSARY TO POSITION CHANNEL, GET DIAGONAL PLIERS, CUT CHANNEL TO LENGTH, ASIDE PLIERS, GET FILE, SMOOTH CUT END, ASIDE FILE, POSITION CHANNEL, INSTALL TWO SCREWS WITH SCREWDRIVER, GET DRILL MOTOR, INSTALL DRILL, DRILL TWO HOLES, REMOVE DRILL, INSTALL COUNTERSINK, COUNTERSINK TWO HOLES, REMOVE COUNTERSINK, ASIDE DRILL MOTOR, GET RIVET GUN, INSTALL SPRING AND SET, INSTALL TWO RIVETS, REMOVE SPRING AND SET FROM RIVET GUN, ASIDE RIVET GUN, AND REMOVE TWO SCREWS</p> <p>ENDS-WITH ASIDE SCREWDRIVER</p> <p>CONDITIONS-APPLICABLE TO DRILLING NO. 45-NO. 14 DIAMETER HOLES IN .063-.090 INCH THICKNESS ALUMINUM AND COUNTERSINKING WITH 1/8-5/32 INCH 100 DEGREE COUNTERSINK. CASE 02 INCLUDES NO SETUP TIME FOR DRILL, COUNTERSINK OR RIVET GUN</p> <p>CASE 01 FIRST TWO-NUT LENGTH OF CHANNEL</p> <p>02 EACH ADDITIONAL ONE-NUT LENGTH OF A CHANNEL (INSTALL AND REMOVE ONE SCREW, DRILL AND COUNTERSINK ONE HOLE, AND INSTALL ONE RIVET)</p>
					5298	
					1078	
NAA	807	MBA	AMRQNX	SNFISXX	VARIABLE	<p>STUD (AIRLOC), INSTALL, PER STUD</p> <p>STARTS-WITH GET AIRLOC STUD</p> <p>INCLUDES-ALL MOTIONS NECESSARY TO GET PIN, POSITION STUD IN HOLE, POSITION PIN IN STUD SHANK, GET TOOL, AND SECURE PIN IN SHANK</p> <p>ENDS-WITH ASIDE TOOL</p> <p>CASE 01 INSTALL STUD WITH AIRLOC TOOL</p> <p>02 INSTALL STUD WITH PNEUMATIC SQUEEZE</p>
					420	
					312	
FFD	807	MAA	KSMANAI	SNFNIXX	VARIABLE	<p>NUT (ANCHOR), INSTALL IN EXISTING HOLES, EASY ACCESS</p> <p>STARTS-WITH GET ANCHOR NUT</p> <p>INCLUDES-ALL MOTIONS NECESSARY TO POSITION ANCHOR NUT TO HOLES, GET CLECO PLIERS, GET AND INSTALL CLECO, ASIDE PLIERS, GET RIVET GUN, GET AND INSTALL SET, GET AND INSTALL SPRING, CONNECT AIR HOSE, GET FIRST RIVET, PLACE RIVET IN HOLE, GET BUCKING BAR AND POSITION TO RIVET, POSITION GUN AND DRIVE RIVET, ASIDE BUCKING BAR, MOVE GUN TO ONE SIDE, INSPECT INSTALLATION, GET CLECO PLIERS, REMOVE CLECO, ASIDE PLIERS AND CLECO, GET SECOND RIVET, PLACE IN HOLE, GET AND PLACE BUCKING BAR, MOVE RIVET GUN TO RIVET, DRIVE RIVET, ASIDE BUCKING BAR, DISCONNECT AIR HOSE, ASIDE RIVET GUN, AND INSPECT INSTALLATION</p> <p>ENDS-WITH ASIDE INSPECTION LIGHT</p> <p>CONDITIONS-APPLICABLE TO 3/32-3/16 INCH DIAMETER SOLID HEAD RIVET</p> <p>CASE 01 FIRST ANCHOR NUT</p> <p>02 EACH ADDITIONAL ANCHOR NUT</p>
					2573	
					1933	

DEFENSE WORK MEASUREMENT STANDARD TIME DATA ELEMENTS

DATA SOURCE	CCUP-ATION	QUALITY	SOURCE CODE	DWMSTP ELEMENT	TMU VALUE	OPERATION/ELEMENT DESCRIPTION
FFD	807	MAA	KSMANA3	SNFNI03	4502	<p>NUT(ANCHOR),INSTALL,DRILL NEW HOLES USING ANCHOR NUT AS DRILL GUIDE,FIRST NUT,EASY ACCESS</p> <p>STARTS-WITH GET ANCHOR NUT</p> <p>INCLUDES-ALL MOTIONS NECESSARY TO POSITION NUT FOR DRILLING,GET DRILL MOTOR,GET AND INSTALL DRILL,CONNECT AIR HOSE,DRILL TWO HOLES,DISCONNECT AIR HOSE,DISASSEMBLE AND ASIDE DRILL,GET AND INSTALL SCREW,INSTALL TWO CLECOS,REMOVE TWO CLECOS,COUNTERSINK TWO HOLES,INSTALL TWO RIVETS,AND REMOVE SCREW</p> <p>ENDS-WITH ASIDE SCREWDRIVER</p> <p>CONDITIONS-APPLICABLE TO DRILLING HOLE TO 3/16 INCH DIAMETER IN ALUMINUM OR MAGNESIUM TO .100 INCH THICKNESS AND INSTALLING 3/32-3/16 INCH DIAMETER SOLID HEAD RIVET</p>
FFD	807	MAA	KSMANA4	SNFNI04	2863	<p>NUT(ANCHOR),INSTALL,EASY ACCESS,DRILL NEW HOLES USING ANCHOR NUT AS DRILL GUIDE,EACH ADDITIONAL NUT</p> <p>STARTS-WITH GET ANCHOR NUT</p> <p>INCLUDES-ALL MOTIONS NECESSARY TO POSITION NUT FOR DRILLING,DRILL TWO HOLES,GET AND INSTALL HOLDING SCREW,INSTALL AND REMOVE TWO CLECOS,COUNTERSINK TWO HOLES,INSTALL TWO RIVETS AND REMOVE HOLDING SCREW</p> <p>ENDS-WITH ASIDE SCREWDRIVER</p> <p>CONDITIONS-APPLICABLE TO DRILLING HOLE TO 3/16 INCH DIAMETER IN ALUMINUM OR MAGNESIUM TO .100 INCH THICKNESS AND INSTALLING 3/32-3/16 INCH DIAMETER SOLID HEAD RIVET</p>
NAA	807	MBA	SMFNNO2	SNFNI05	4039	<p>NUT(ANCHOR),INSTALL WITH TWO RIVETS,FIRST NUT (USE DRILL JIG TO LOCATE ATTACH HOLES)</p> <p>STARTS-WITH GET DRILL JIG</p> <p>INCLUDES-ALL MOTIONS NECESSARY TO POSITION JIG IN HOLE,GET DRILL MOTOR,INSTALL DRILL IN CHUCK,DRILL ANCHOR NUT ATTACH HOLE,REPOSITION JIG FOR SECOND HOLE,DRILL HOLE,REMOVE AND ASIDE JIG,REMOVE DRILL,INSTALL COUNTERSINK,COUNTERSINK TWO HOLES,REMOVE COUNTERSINK,ASIDE DRILL MOTOR,GET ANCHOR NUT,POSITION TO HOLES,INSTALL CLECO WITH PLIERS,SET UP RIVET GUN,INSTALL FIRST RIVET,REMOVE CLECO,INSTALL SECOND RIVET,AND REMOVE SPRING AND SET FROM RIVET GUN</p> <p>ENDS-WITH ASIDE TOOLS</p> <p>CONDITIONS-APPLICABLE TO DRILLING NO.45-NO.14 DIAMETER HOLES IN .063-.090 INCH THICKNESS ALUMINUM AND COUNTERSINKING WITH A 1/8-5/32 INCH 100 DEGREE COUNTERSINK.ALUMINUM OR MONEL RIVETS 1/8 - 3/16 INCH DIAMETER</p>
NAA	807	MBA	SMFNNO3	SNFNI06	1448	<p>NUT(ANCHOR),INSTALL WITH TWO RIVETS,ADDITIONAL NUT(USE DRILL JIG TO LOCATE ATTACH HOLES)</p> <p>STARTS-WITH GET DRILL JIG</p> <p>INCLUDES-ALL MOTIONS NECESSARY TO POSITION JIG IN HOLE,DRILL FIRST HOLE,REPOSITION JIG,DRILL SECOND HOLE,REMOVE JIG,COUNTERSINK HOLES,GET ANCHOR NUT,POSITION TO HOLES,INSTALL CLECO,INSTALL FIRST RIVET,REMOVE CLECO,AND INSTALL SECOND RIVET</p> <p>ENDS-WITH RIVET GUN IN HAND</p> <p>CONDITIONS-DOES NOT INCLUDE ANY SETUP TIME FOR DRILL,COUNTERSINK,OR RIVET GUN,APPLICABLE TO DRILLING NO.45-NO.14 DIAMETER HOLES IN .063-.090 INCH THICKNESS ALUMINUM AND COUNTERSINKING WITH 1/8-5/32 INCH 100 DEGREE COUNTERSINK.ALUMINUM OR MONEL RIVETS 1/8 - 3/16 INCH DIAMETER.</p>

DEFENSE WORK MEASUREMENT STANDARD TIME DATA ELEMENTS

DATA SOURCE	OCCUP- ATION	QUALITY	SOURCE CODE	DWMSTDP ELEMENT	TMU VALUE	OPERATION/ELEMENT DESCRIPTION
NAA	807	MUA	ONFSD11	SNFP101	458	PIN(DRAW TYPE SHEAR), INSTALL STARTS-WITH GET COLLAR INCLUDES-ALL MOTIONS NECESSARY TO GET PIN, INSERT IN HOLE, PLACE COLLAR ON PIN, GET SWAGING TOOL, PLACE FINGER ON HEAD OF PIN, PLACE SWAGING TOOL ON PIN, SWAGE COLLAR, AND EXAMINE INSTALLATION ENDS-WITH ASIDE TOOL CONDITIONS-APPLICABLE TO HUCK PULL TYPE SHEAR PIN OR SIMILAR TO 3/8 INCH DIAMETER, ANY LENGTH, AND HUCK GUN MODEL 352, 200 OR SIMILAR
NAA	807	MAA	AMRAR54	SNFRFX	VARIABLE 229 181	FASTENER(ANCHORED), REMOVE WORN OR STRIPPED FLOATING OR CHANNEL NUT ONLY STARTS-WITH GET DUCKBILL PLIERS INCLUDES-ALL MOTIONS NECESSARY TO GET PLIERS, BEND TWO TABS; AND GET, REMOVE, AND ASIDE NUT ENDS-WITH ASIDE NUT CASE 01 FIRST OR SINGLE NUT 02 EACH ADDITIONAL NUT
NAA	807	MAA	AMRQRXX	SNFRSXX	VARIABLE 342 288	STUD(AIRLOC), REMOVE PIN WITH AIRLOC TOOL STARTS-WITH GET AIRLOC TOOL INCLUDES-ALL MOTIONS NECESSARY TO POSITION AIRLOC STUD IN TOOL, REMOVE PIN, ASIDE TOOL, AND REMOVE STUD ENDS-WITH ASIDE PIN AND STUD CASE 01 FIRST STUD 02 EACH ADDITIONAL STUD
NAA	807	MAA	AMRQNX	SNFSIXX	VARIABLE 215 106	STUD(CAMLOC), INSTALL WITH CAMLOC PLIERS, NO RETAINING WASHER STARTS-WITH GET CAMLOC STUD ASSEMBLY INCLUDES-ALL MOTIONS NECESSARY TO GET CAMLOC PLIERS, POSITION PLIERS TO STUD, COMPRESS SPRING, POSITION STUD IN GROMMET, AND REMOVE PLIERS FROM STUD ENDS-WITH ASIDE PLIERS CASE 01 FIRST STUD ASSEMBLY 02 EACH ADDITIONAL STUD ASSEMBLY
NAA	807	MAA	AMRQN32	SNFS103	318	STUD(STRESS HEAD CAMLOC), INSTALL, PER STUD STARTS-WITH GET CAMLOC STUD ASSEMBLY INCLUDES-ALL MOTIONS NECESSARY TO POSITION STUD IN HOLE, GET RETAINER RING, POSITION ON STUD, GET HOLLOW DRIVE BAR, POSITION ON RETAINING RING, GET HAMMER, SEAT RETAINING RING, AND VISUALLY INSPECT ASSEMBLY ENDS-WITH ASIDE TOOLS CONDITIONS-APPLICABLE TO 4S STUD AND RETAINER SERIES
NAA	807	MAA	AMRQRXX	SNFSRXX	VARIABLE 204 116	STUD(CAMLOC), REMOVE, NO RETAINING WASHER STARTS-WITH GET CAMLOC PLIERS INCLUDES-ALL MOTIONS NECESSARY TO RAISE STUD WITH FINGER AND HOLD, POSITION PLIERS UNDER SPRING CUP, COMPRESS SPRING, AND REMOVE STUD FROM GROMMET ENDS-WITH ASIDE STUD AND PLIERS CASE 01 FIRST STUD 02 EACH ADDITIONAL STUD
NAA	807	MAA	AMRQN33	SNFW101	326	WASHER(SPLIT), INSTALL ON CAMLOC STUD ASSEMBLY STARTS-WITH GET SPLIT WASHER INCLUDES-ALL MOTIONS NECESSARY TO GET PLIERS, GRASP WASHER WITH PLIERS, BEND WASHER TO ENLARGE OPENING, HOLD STUD, PLACE WASHER ON STUD, BEND WASHER TO CLOSE OPENING, AND VISUALLY INSPECT ASSEMBLY ENDS-WITH ASIDE PLIERS CONDITIONS-APPLICABLE TO 2600-SW, 2700-SW, AND 4002-SW WASHER SERIES

DEFENSE WORK MEASUREMENT STANDARD TIME DATA ELEMENTS

DATA SOURCE	OCCUP- ATION	QUALITY	SOURCE CODE	DWMSTDP ELEMENT	TMU VALUE	OPERATION/ELEMENT DESCRIPTION
NAA	807	MAA	AMRQN34	SNFWI02	274	WASHER(SOLID), INSTALL ON CAMLOC STUD ASSEMBLY STARTS-WITH GET LOCKWASHER INCLUDES-ALL MOTIONS NECESSARY TO GET LOCKWASHER TOOL, POSITION LOCKWASHER IN TOOL, HOLD STUD, INSTALL LOCKWASHER, REMOVE TOOL, AND VISUALLY EXAMINE ASSEMBLY ENDS-WITH ASIDE TOOL CONDITIONS-APPLICABLE TO 2600-LH AND 2755-1 WASHER SERIES
NAA	807	MAA	AMRQR32	SNFWR01	140	WASHER(SPLIT), REMOVE FROM CAMLOC STUD, PER WASHER STARTS-WITH GET PLIERS INCLUDES-ALL MOTIONS NECESSARY TO HOLD CAMLOC STUD, GET WASHER WITH PLIERS, BEND WASHER TO ENLARGE OPENING, AND REMOVE WASHER ENDS-WITH ASIDE WASHER AND PLIERS CONDITIONS-APPLICABLE TO 2600-SW, 2700-SW, AND 4002-SW SERIES WASHERS
FFD	807	TAA	KTLPTC8	8PTAC01	1591	ALUMINUM, CUT WITH DISC, ROUTER OR SIMILAR MOUNTED IN PNEUMATIC GUN, PROCESS TIME ONLY STARTS-WITH CUTTER IN POSITION TO CUT INCLUDES-ALL MOTIONS NECESSARY TO CUT ONE LINEAR INCH OF ALUMINUM SHEET OR TUBING .081 TO .125 INCH THICK ENDS-WITH COMPLETION OF CUT CONDITIONS-APPLICABLE TO 3000 RPM PNEUMATIC GUN
FFD	807	TAA	KTLPTCC	8PTAC02	1985	ALUMINUM, CUT WITH SAW MOUNTED IN PNEUMATIC GUN STARTS-WITH SAW IN POSITION FOR CUTTING INCLUDES-ALL MOTIONS NECESSARY TO CUT ONE LINEAR INCH OF ALUMINUM SHEET OR TUBING TO .250 INCH THICK ENDS-WITH CUT COMPLETED CONDITIONS-APPLICABLE TO 3000 RPM PNEUMATIC GUN AND SAW TWO INCHES IN DIAMETER WITH 40-60 TEETH PER INCH
FFD	807	TAA	KSMHR12	8PTBS01	50	BOLT(HUCK LOCK), SET WITH PULL TYPE GUN STARTS-WITH ACTUATION OF GUN TRIGGER INCLUDES-ALL THE TIME NECESSARY TO SET ONE HUCK LOCK BOLT ENDS-WITH RELEASE OF TRIGGER
FFD	807	TAA	KSMTPR2	8PTCS01	153	COLLAR(RIVET), SPLIT WITH PNEUMATIC RIVET GUN, PROCESS TIME ONLY STARTS-WITH ACTUATE RIVET GUN SWITCH INCLUDES-ALL THE TIME NECESSARY TO SPLIT ONE RIVET COLLAR ENDS-WITH RELEASE OF SWITCH
FFD	807	TAA	KPTJB13	8PTJ101	49	JO-BOLT, INSTALL WITH PNEUMATIC TOOL STARTS-WITH ACTUATION OF TRIGGER INCLUDES-ALL THE MACHINE TIME NECESSARY TO TURN DOWN AND TIGHTEN ONE JO-BOLT ENDS-WITH RELEASE OF TRIGGER

DEFENSE WORK MEASUREMENT STANDARD TIME DATA ELEMENTS

DATA SOURCE	GROUP- ACTION	QUALITY	SOURCE CODE	OWMSTDP ELEMENT	TMU VALUE	OPERATION/ELEMENT DESCRIPTION
NAA	807	TUA	SHRSNXX	SSRSAXX	VARIABLE	<p>SEALANT, APPLY WITH PNEUMATIC SEALANT GUN STARTS-WITH GET GUN INCLUDES-ALL MOTIONS NECESSARY TO PLACE GUN IN VISE, DISCONNECT AIR HOSE, UNSCREW SEALANT CHAMBER, ASIDE PNEUMATIC PISTON, GET SCREWDRIVER AND PUSH PLUNGER DOWN, GET CAN OF SEALANT, PRY LID OFF, GET PUTTY KNIFE, CUT SEALANT FROM CAN, REPLACE LID ON CAN, GET SEALANT IN HAND, KNEAD SEALANT AND PLACE IN GUN, GET SEALANT CHAMBER, SCREW ON GUN, CLEAN SURFACE, REMOVE SCREW, CHECK HOLE DEPTH WITH SCALE, ADJUST PROBE REACH, INSTALL PROBE, POSITION GUN TO PROBE, CONNECT AIR HOSE, APPLY SEALANT TO FOUR LINEAR INCHES, DISCONNECT AND ASIDE GUN, REMOVE PROBE, AND INSTALL SCREW ENDS-WITH ASIDE SCREWDRIVER CONDITIONS-APPLICABLE TO DOW-CORNING SEALANT NO. DC-94-011 OR SIMILAR CASE 01 GET GUN, FILL, AND APPLY SEALANT TO FOUR LINEAR INCHES 02 APPLY SEALANT TO FOUR ADDITIONAL LINEAR INCHES (APPLICATION ONLY)</p>
					29718	
					17030	
NAA	807	MAA	AMRAN54	MTFFIXX	VARIABLE	<p>FASTENER (ANCHORED), INSTALL RIV-NUT, MANUAL MOTIONS ONLY STARTS-WITH GET SQUEEZE TOOL INCLUDES-ALL MOTIONS NECESSARY TO GET SQUEEZE TOOL, POSITION TOOL FOR RIV-NUT, GET RIV-NUT, POSITION TO TOOL AND START THREAD, RUN RIV-NUT DOWN THREAD, BOTTOM RIV-NUT ON THREAD, POSITION RIV-NUT IN HOLE, APPLY PRESSURE TO SEAT NUT, RELEASE HANDLE, REACH TO CRANK KNOB, HOLD TOOL AND UNTHREAD FROM NUT ENDS-WITH ASIDE TOOL CONDITIONS-INCLUDES FLUSH OR FLAT HEAD TO SIZE 10-32, PROCESS TIME NOT INCLUDED. CASE 01 FIRST RIV-NUT 02 EACH ADDITIONAL RIV-NUT</p>
					500	
					440	
NAA	807	MBA	OTFHMXX	STFBIXX	VARIABLE	<p>BOLT (HI-LOK), INSTALL WITH MANUAL TOOLS STARTS-WITH GET HANDFUL OF BOLTS (FIRST BOLT) OR UNPALM BOLT (ADDITIONAL BOLT) INCLUDES-ALL MOTIONS NECESSARY TO INSERT BOLT IN HOLE, GET HAMMER, DRIVE BOLT THROUGH HOLE, ASIDE HAMMER, GET COLLAR, PLACE COLLAR ON BOLT, TURN COLLAR ON THREADS BY HAND, GET SPECIAL RATCHET OR RATCHET BOX WRENCH AND ALLEN WRENCH, TIGHTEN COLLAR ON BOLT, AND BREAK COLLAR AWAY ENDS-WITH ASIDE TOOLS CASE 01 FIRST BOLT, BOLT AND COLLAR, NO INTERFERENCE, NOMINAL REACH AND MOVE DISTANCES-18 INCHES 02 EACH ADDITIONAL BOLT, BOLT AND COLLAR NO INTERFERENCE, NOMINAL REACH AND MOVE DISTANCES-18 INCHES 03 FIRST BOLT, BOLT AND COLLAR, SLIGHT INTERFERENCE, NOMINAL REACH AND MOVE DISTANCES-24 INCHES 04 EACH ADDITIONAL BOLT, BOLT AND COLLAR, SLIGHT INTERFERENCE, NOMINAL REACH AND MOVE DISTANCES-24 INCHES 05 FIRST BOLT, BOLT AND COLLAR, DIFFICULT ACCESS, NOMINAL REACH AND MOVE DISTANCES-24 INCHES 06 EACH ADDITIONAL BOLT, BOLT AND COLLAR, DIFFICULT ACCESS, NOMINAL REACH AND MOVE DISTANCES-24 INCHES</p>
					973	
					757	
					1327	
					1007	
					2471	
					2268	

DEFENSE WORK MEASUREMENT STANDARD TIME DATA ELEMENTS

DATA SOURCE	OCCUPATION	QUALITY	SOURCE CODE	DWMSTD ELEMENT	TMU VALUE	OPERATION/ELEMENT DESCRIPTION
FFD	307	MAA	KALSAN1	STFB107	473	BOLT(HI-LOK), INSTALL, POWER TOOLS, FIRST STARTS-WITH SIMO GET OF GUN AND BOLT(S) INCLUDES-ALL MOTIONS NECESSARY TO PLACE BOLT IN HOLE, PLACE GUN TO BOLT, INSTALL BOLT, GET COLLAR(S), PLACE COLLAR ON PIN AND START IN THREADS, PLACE GUN ON COLLAR, AND TIGHTEN COLLAR ENDS-WITH ASIDE GUN
FFD	907	MAA	KALSAN2	STFB108	390	BOLT(HI-LOK), INSTALL, POWER TOOLS, ADDITIONAL STARTS-WITH BOLT AND GUN IN HAND INCLUDES-ALL MOTIONS NECESSARY TO MOVE BOLT TO HOLE, POSITION GUN TO BOLT, INSTALL BOLT, GET COLLAR, POSITION COLLAR ON PIN, START THREADS, PLACE GUN ON COLLAR, AND TIGHTEN COLLAR ENDS-WITH GUN IN HAND
NAA	807	MBA	OTFHMXX	STFBXXX	VARIABLE	<p>BOLT(HI-LOK), REMOVE, MANUAL TOOLS STARTS-WITH GET PLIERS(FIRST) OR MOVE PLIERS TO COLLAR(ADDITIONAL) INCLUDES-ALL MOTIONS NECESSARY TO ADJUST PLIERS(CHANNEL LOCK OR SLIP JOINT), PLACE PLIERS ON COLLAR, GET ALLEN WRENCH AND PLACE IN BOLT, TURN COLLAR WITH PLIERS APPROXIMATELY FIVE THREADS, ASIDE PLIERS AND ALLEN WRENCH, UNSCREW COLLAR ONE THREAD BY HAND, ASIDE COLLAR, GET HAMMER AND DRIFT, AND DRIVE BOLT OUT ENDS-WITH ASIDE TOOLS</p> <p>1744 CASE 01 FIRST BOLT, BOLT AND COLLAR, NO INTERFERENCE, NOMINAL REACH AND MOVE DISTANCES-18 INCHES</p> <p>1476 02 EACH ADDITIONAL BOLT, BOLT AND COLLAR, NO INTERFERENCE, NOMINAL REACH AND MOVE DISTANCES-18 INCHES</p> <p>2486 03 FIRST BOLT, BOLT AND COLLAR, SLIGHT INTERFERENCE, NOMINAL REACH AND MOVE DISTANCES-24 INCHES</p> <p>2166 04 EACH ADDITIONAL BOLT, BOLT AND COLLAR, MOVE DISTANCES-24 INCHES</p> <p>3651 05 FIRST BOLT, BOLT AND COLLAR, DIFFICULT ACCESS, NOMINAL REACH AND MOVE DISTANCES-24 INCHES</p> <p>3289 06 EACH ADDITIONAL BOLT, BOLT AND COLLAR, DIFFICULT ACCESS, NOMINAL REACH AND MOVE DISTANCES-24 INCHES</p>
NAA	807	MBA	OTFHMXX	STFCIXX	VARIABLE	<p>COLLAR(HI-LOK BOLT), INSTALL, MANUAL TOOLS STARTS-WITH GET HANDFUL OF COLLARS(FIRST) OR UNPALM COLLAR(ADDITIONAL) INCLUDES-ALL MOTIONS NECESSARY TO TURN COLLAR ON THREADS BY HAND, GET SPECIAL RATCHET OR RATCHET BOX END WRENCH AND ALLEN WRENCH, PLACE TOOL(S) TO BOLT AND COLLAR, TIGHTEN COLLAR, AND BREAK AWAY COLLAR ENDS-WITH ASIDE TOOLS</p> <p>706 CASE 01 FIRST COLLAR, NO INTERFERENCE, NOMINAL REACH AND MOVE DISTANCES-18 INCHES</p> <p>602 02 EACH ADDITIONAL COLLAR, NO INTERFERENCE, NOMINAL REACH AND MOVE DISTANCES-18 INCHES</p> <p>930 03 FIRST COLLAR, SLIGHT INTERFERENCE, NOMINAL REACH AND MOVE DISTANCES-24 INCHES</p> <p>756 04 EACH ADDITIONAL COLLAR, SLIGHT INTERFERENCE, NOMINAL REACH AND MOVE DISTANCES-24 INCHES</p> <p>1958 05 FIRST COLLAR, DIFFICULT ACCESS, NOMINAL REACH AND MOVE DISTANCES-24 INCHES</p> <p>1804 06 EACH ADDITIONAL COLLAR, DIFFICULT ACCESS, NOMINAL REACH AND MOVE DISTANCES-24 INCHES</p>

DEFENSE WORK MEASUREMENT STANDARD TIME DATA ELEMENTS

DATA SOURCE	OCCUP- ATION	QUALITY	SOURCE CODE	DWMSTDP ELEMENT	TMU VALUE	OPERATION/ELEMENT DESCRIPTION
NAA	807	MBA	OTFHMXX	STFCRXX	VARIABLE	<p>COLLAR(HI-LOCK BOLT), REMOVE, MANUAL TOOLS STARTS-WITH GET PLIERS(FIRST) OR MOVE PLIERS TO COLLAR(ADDITIONAL) INCLUDES-ALL MOTIONS NECESSARY TO ADJUST PLIERS(CHANNEL LOCK OR SLIP JOINT), PLACE PLIERS ON COLLAR, GET ALLEN WRENCH AND PLACE IN BOLT, TURN COLLAR WITH PLIERS APPROXIMATELY FIVE THREADS, ASIDE TOOLS, AND UNSCREW COLLAR ONE THREAD BY HAND ENDS-WITH ASIDE COLLAR</p> <p>1317 CASE 01 FIRST COLLAR, NO INTERFERENCE, NOMINAL REACH AND MOVE DISTANCES-18 INCHES</p> <p>1227 02 EACH ADDITIONAL COLLAR, NO INTERFERENCE, NOMINAL REACH AND MOVE DISTANCES-18 INCHES</p> <p>2055 03 FIRST COLLAR, SLIGHT INTERFERENCE, NOMINAL REACH AND MOVE DISTANCES-24 INCHES</p> <p>1917 04 EACH ADDITIONAL COLLAR, SLIGHT INTERFERENCE, NOMINAL REACH AND MOVE DISTANCES-24 INCHES</p> <p>3101 05 FIRST COLLAR, DIFFICULT ACCESS, NOMINAL REACH AND MOVE DISTANCES-24 INCHES</p> <p>2937 06 EACH ADDITIONAL COLLAR, DIFFICULT ACCESS, NOMINAL REACH AND MOVE DISTANCES-24 INCHES</p>
NAA	807	MAA	AMRAN52	STFFI01	883	<p>FASTENER(ANCHORED), INSTALL DILL NUT WITH TOOL, FIRST PIECE STARTS-WITH GET DILL NUT TOOL INCLUDES-ALL THE MOTIONS NECESSARY TO GET DILL NUT TOOL, MOVE TO APPROXIMATE LOCATION, GET DILL NUT, MOVE NUT TO TOOL, CHECK RATCHET POSITION, MOVE TOOL WITH NUT TO HOLE, PUSH FIRM, ENGAGE RATCHET TO NUT SLOT, REGRASP AND HOLD FIRM, TIGHTEN NUT(SLEEVE), REMOVE TOOL FROM NUT, ASIDE TOOL, GET PLIERS TO NUT, CHECK NUT FOR TIGHTNESS WITH PLIERS, ASIDE PLIERS ENDS-WITH ASIDE PLIERS CONDITION-ADJUSTMENT OF RATCHET IS REQUIRED 50 PERCENT OF THE TIME, INCLUDES FLUSH OR FLAT HEAD TO SIZE 10-32</p>
NAA	807	MAA	AMRAN53	STFFI02	730	<p>FASTENER(ANCHORED), INSTALL DILL NUT WITH TOOL, ADDITIONAL PIECE STARTS-WITH GET DILL NUT INCLUDES-ALL MOTIONS NECESSARY TO GET DILL NUT TO TOOL, MOVE TOOL WITH NUT TO HOLE, PUSH FIRM, ENGAGE RATCHET TO NUT SLOT, REGRASP AND HOLD FIRM, TIGHTEN NUT(SLEEVE), MOVE TOOL FROM NUT, CHECK NUT FOR TIGHTNESS USING PLIERS ENDS-WITH ASIDE PLIERS CONDITIONS-INCLUDES FLUSH OR FLAT HEAD TO SIZE 10-32</p>
NAA	807	MUA	AMRAN50	STFFI03	610	<p>FASTENER(ANCHORED), INSTALL RIV-NUT, FIRST PIECE STARTS-WITH GET SQUEEZE TOOL INCLUDES-ALL MOTIONS NECESSARY TO GET SQUEEZE TOOL, GET RIV-NUT, SCREW RIV-NUT ON TOOL, POSITION RIV-NUT IN HOLE, SQUEEZE TOOL TO SECURE RIV-NUT, AND REMOVE TOOL FROM RIV-NUT ENDS-WITH ASIDE TOOL CONDITIONS-INCLUDES FLUSH OR FLAT HEAD TO 10-32</p>

DEFENSE WORK MEASUREMENT STANDARD TIME DATA ELEMENTS

DATA SOURCE	OCCUP- ATION	QUALITY	SOURCE CODE	DWMSTOP ELEMENT	TMU VALUE	OPERATION/ELEMENT DESCRIPTION
NAA	807	MUA	AMRAN51	STFFI04	550	FASTENER(ANCHORED), INSTALL RIV-NUT, ADDITIONAL STARTS-WITH GET RIV-NUT, TOOL IN HAND INCLUDES-ALL MOTIONS NECESSARY TO SCREW RIV-NUT ON TOOL, POSITION RIV-NUT IN HOLE, SQUEEZE TOOL HANDLES TO SECURE RIV-NUT, AND REMOVE TOOL FROM RIV-NUT ENDS-WITH TOOL IN HAND CONDITIONS-INCLUDES FLUSH OR FLAT HEAD TO 10-32
NAA	807	MAA	AMRAR52	STFFRXX	VARIABLE	FASTENER(ANCHORED), REMOVE DILL NUT STARTS-WITH GET DILL NUT TOOL INCLUDES-ALL MOTIONS NECESSARY TO GET DILL NUT TOOL, CHECK RATCHET, ADJUST RATCHET IF NECESSARY, POSITION TOOL TO SLOT, LOOSEN NUT SLEEVE, REMOVE TOOL FROM COLLAR, ASIDE TOOL AND COLLAR ENDS-WITH ASIDE TOOL OR COLLAR CONDITION-INCLUDES FLUSH OR FLAT HEAD TO SIZE 10-32. ADJUSTMENT OF RATCHET REQUIRED 50 PERCENT OF THE TIME FOR FIRST NUT. CASE 01 FIRST DILL NUT 02 EACH ADDITIONAL DILL NUT
					782 726	
FFD	807	MBA	KSM8TXX	STFIBXX	VARIABLE	BOLT(HI-TORQUE), INSTALL WITH PNEUMATIC TOOL, PER BOLT STARTS-WITH GET RIVET GAUGE INCLUDES-ALL MOTIONS NECESSARY TO GAUGE HOLE DEPTH, GET BOLT, PLACE IN HOLE, GET HAMMER, SEAT BOLT, ASIDE HAMMER, START COLLAR ON BOLT BY HAND, GET PNEUMATIC TOOL, PLACE TOOL ON BOLT, TIGHTEN BOLT, SHAKE SHEARED COLLAR FROM TOOL, ASIDE TOOL, AND INSPECT INSTALLATION WITH LIGHT ENDS-WITH ASIDE LIGHT CONDITIONS-TIME FOR SET UP OF PNEUMATIC TOOL NOT INCLUDED CASE 01 INSTALL BOLT IN UNOBSTRUCTED LOCATION 02 INSTALL BOLT IN OBSTRUCTED LOCATION (INSPECTION IS PERFORMED WITH LIGHT AND MIRROR)
					826 1029	
FFD	807	MAA	KSM8T11	STFIB03	1069	BOLT(HI-TORQUE), INSTALL WITH HAND TOOLS IN UNOBSTRUCTED LOCATION STARTS-WITH GET RIVET GAUGE INCLUDES-ALL MOTIONS NECESSARY TO GAUGE HOLE TO DETERMINE BOLT LENGTH, GET BOLT, PLACE IN HOLE, GET HAMMER, SEAT BOLT, ASIDE HAMMER, START COLLAR ON BOLT BY HAND, GET ALLEN WRENCH, GET OPEN END WRENCH, PLACE ALLEN WRENCH IN BOLT, PLACE END WRENCH ON COLLAR, TIGHTEN COLLAR, ASIDE SHEARED COLLAR, ASIDE TOOLS, AND INSPECT INSTALLATION WITH LIGHT ENDS-WITH ASIDE INSPECTION LIGHT
FFD	807	MAA	KSM8T13	STFIB04	1535	BOLT(HI-TORQUE), INSTALL WITH HAND TOOLS IN OBSTRUCTED LOCATION STARTS-WITH GET RIVET GAUGE INCLUDES-ALL MOTIONS NECESSARY TO GAUGE HOLE TO DETERMINE BOLT LENGTH, GET BOLT, PLACE IN HOLE, GET HAMMER, SEAT BOLT, ASIDE HAMMER, START COLLAR ON BOLT BY HAND, GET ALLEN WRENCH, GET OPEN END WRENCH, PLACE ALLEN WRENCH IN BOLT, PLACE END WRENCH ON COLLAR, TIGHTEN COLLAR, ASIDE SHEARED COLLAR, ASIDE TOOLS, AND INSPECT INSTALLATION WITH LIGHT AND MIRROR ENDS-WITH ASIDE LIGHT AND MIRROR

DEFENSE WORK MEASUREMENT STANDARD TIME DATA ELEMENTS

DATA SOURCE	OCCUP- ATION	QUALITY	SOURCE CODE	OWNSTOP ELEMENT	TMU VALUE	OPERATION/ELEMENT DESCRIPTION
NAA	807	MAA	OTFBJXX	STFIJXX	VARIABLE	<p>JO-BOLT, INSTALL WITH HAND TOOL STARTS-WITH GET JO-BOLT SELECTOR GAUGE INCLUDES-ALL MOTIONS NECESSARY TO GAUGE HOLE DEPTH, ASIDE GAUGE, GET SOCKET, ASSEMBLE AND ADJUST LOCKSET, POSITION BOLT TO LOCKSET, POSITION LOCKSET AND BOLT TO HOLE, TIGHTEN UNTIL BOLT SHEARS, MOVE TOOL AND CHECK BOLT, DISASSEMBLE AND ASIDE TOOLS ENDS-WITH ASIDE TOOL CONDITION-JO-BOLT TO 3/16 INCH DIAMETER, NUT OR CCS TYPE CASE 01 FIRST JO-BOLT 02 EACH ADDITIONAL JO-BOLT</p>
					885 455	
NAA	807	MUA	OTFBJXX	STFIJXX	VARIABLE	<p>JO-BOLT, INSTALL WITH ARO JO-BOLT GUN MODEL 7 OR SIMILAR STARTS-WITH GET JO-BOLT SELECTOR GAUGE INCLUDES-ALL MOTIONS NECESSARY TO GAUGE HOLE DEPTH, ASIDE GAUGE, GET JO-BOLT GUN, GET JO-BOLT, PLACE JO-BOLT IN LOCKSET OF GUN, POSITION GUN AND JO-BOLT TO HOLE, TIGHTEN JO-BOLT, REMOVE GUN, DISCARD SHEARED PORTION OF JO-BOLT, AND CHECK INSTALLATION ENDS-WITH ASIDE GUN CONDITIONS-APPLICABLE TO INSTALLATION OF JO-BOLT TO 3/16 INCH DIAMETER CASE 01 FIRST JO-BOLT 02 EACH ADDITIONAL JO-BOLT</p>
					461 209	
FFD	807	MAA	KSMJB12	STFJ103	631	<p>JO-BOLT, INSTALL, OBSTRUCTED, USE JO-BOLT SET STARTS-WITH GET GAUGE, GUN IN HAND INCLUDES-ALL MOTIONS NECESSARY TO DETERMINE GRIP LENGTH WITH HOOK GAUGE, ASIDE GAUGE, GET JO-BOLT, POSITION IN HOLE, GET JO-BOLT SET, POSITION TO JO-BOLT, DRIVE JO-BOLT, SHAKE SHANK FROM SET ENDS-WITH GUN IN HAND</p>
FFD	807	MUA	KSMJBXX	STFJRXX	VARIABLE	<p>JO-BOLT, REMOVE STARTS-WITH GET DRILL MOTOR INCLUDES-ALL MOTIONS NECESSARY TO GET AND INSTALL DRILL BIT, CONNECT AIR HOSE, MOVE DRILL TO JO-BOLT, DRILL JO-BOLT HEAD, REMOVE DRILL BIT, DISCONNECT AIR HOSE, ASIDE DRILL BIT AND DRILL MOTOR, GET HAMMER, GET PUNCH, PLACE PUNCH TO DRILLED HEAD, DRIVE OUT SHANK, ASIDE HAMMER, GET PLIERS, PULL DRILLED HEAD FROM PUNCH AND ASIDE, ASIDE PLIERS, ASIDE PUNCH, GET SHANK, AND ASIDE TO TRASH ENDS-WITH RELEASE SHANK CASE 01 REMOVE FIRST STEEL JO-BOLT 02 REMOVE EACH ADDITIONAL STEEL JO-BOLT 03 REMOVE FIRST ALUMINUM JO-BOLT 04 REMOVE EACH ADDITIONAL ALUMINUM JO-BOLT</p>
					2819 2190 1333 704	

DEFENSE WORK MEASUREMENT STANDARD TIME DATA ELEMENTS

DATA SOURCE	OCCUP- ATION	QUALITY	SOURCE CODE	DWMSTOP ELEMENT	TMU VALUE	OPERATION/ELEMENT DESCRIPTION
NAA	807	MAA	OTFBJXX	STFRJXX	VARIABLE	<p>JO-BOLT, REMOVE STARTS-WITH GET DRILL MOTOR INCLUDES-ALL MOTIONS NECESSARY TO GET DRILL MOTOR, INSTALL DRILL, POSITION DRILL TO BOLT, DRILL OUT BOLT, GET NUT ON DRILL, REMOVE NUT WITH CARE, ASIDE NUT, GET PLIERS TO NUT, ACTUATE MOTOR TO SPIN OUT NUT, ASIDE NUT AND DRILL; OR GET E-Z OUT, ADJUST AND POSITION TO NUT, SEAT FIRMLY ON NUT, REMOVE NUT, DISENGAGE NUT FROM E-Z OUT, ASIDE NUT AND E-Z OUT ENDS-WITH ASIDE TOOLS CONDITION-APPLIES TO JO-BOLT TO 3/16 INCH DIAMETER, NUT OR CCS TYPE</p> <p>1222 CASE 01 REMOVE FIRST JO-BOLT USING DRILL WITH STRAIGHT CHUCK, E-Z OUT NOT REQUIRED</p> <p>617 02 REMOVE EACH ADDITIONAL JO-BOLT USING DRILL WITH STRAIGHT CHUCK, E-Z OUT NOT REQUIRED</p> <p>1598 03 REMOVE FIRST JO-BOLT USING DRILL WITH STRAIGHT CHUCK, USE OF E-Z OUT REQUIRED</p> <p>657 04 REMOVE EACH ADDITIONAL JO-BOLT USING DRILL WITH STRAIGHT CHUCK, USE OF E-Z OUT REQUIRED</p> <p>1423 05 REMOVE FIRST JO-BOLT USING DRILL WITH 90 DEGREE CHUCK, E-Z OUT NOT REQUIRED</p> <p>06 REMOVE EACH ADDITIONAL JO-BOLT USING DRILL WITH 90 DEGREE CHUCK, E-Z OUT NOT REQUIRED</p> <p>1781 07 REMOVE FIRST JO-BOLT USING DRILL WITH 90 DEGREE CHUCK, USE OF E-Z OUT REQUIRED</p> <p>1002 08 REMOVE EACH ADDITIONAL JO-BOLT USING DRILL WITH 90 DEGREE CHUCK, USE OF E-Z OUT REQUIRED</p>
NAA	807	MBA	AMRORXX	STLACXX	VARIABLE	<p>AREA(DAMAGED), CUT AWAY, ALUMINUM ALLOY TO .064 INCH THICKNESS, CIRCULAR AREA STARTS-WITH VISUALLY EXAMINE DAMAGED AREA INCLUDES-ALL MOTIONS NECESSARY TO MEASURE SIZE OF AREA TO BE CUT AWAY, MARK OUTLINE OF PATCH, SET UP AIR POWERED DRILL, DRILL PILOT HOLE, COUNTERBORE FOR ACCESS BY SNIPS, CUT AWAY DAMAGED AREA WITH COMPOUND LEVER SNIPS, SET UP DRILL WITH ROTARY FILE, CUT TO LINE WITH ROTARY FILE, AND FINAL DRESS HOLE WITH HAND FILE AND EMERY CLOTH ENDS-WITH ASIDE TOOLS CONDITIONS-USE OF DRILL TO PILOT DRILL AND COUNTERBORE COMPUTED AT 30% OCCURRENCE</p> <p>19280 CASE 01 REMOVE EXTERNAL SURFACE DAMAGE, TO 4 INCHES DIAMETER</p> <p>31000 02 REMOVE EXTERNAL SURFACE DAMAGE, 4-7 INCHES DIAMETER</p> <p>42840 03 REMOVE EXTERNAL SURFACE DAMAGE, 7-10 INCHES DIAMETER</p> <p>55170 04 REMOVE EXTERNAL SURFACE DAMAGE, 10-13 INCHES DIAMETER</p> <p>67250 05 REMOVE EXTERNAL SURFACE DAMAGE, 13-16 INCHES DIAMETER</p>

DEFENSE WORK MEASUREMENT STANDARD TIME DATA ELEMENTS

DATA SOURCE	CCUP- ATION	QUALITY	SOURCE CODE	DWMSTOP ELEMENT	TMU VALUE	OPERATION/ELEMENT DESCRIPTION
NAA	807	TUA	AMRMMXX	STLASXX	VARIABLE	ALUMINUM, SAW WITH JEWELER'S OR SKIN SAW, PER STRAIGHT LINEAR INCH STARTS-WITH GET SAW INCLUDES-ALL MOTIONS NECESSARY TO POSITION SAW TO CUTTING POINT AND CUT ONE STRAIGHT LINEAR INCH ENDS-WITH ASIDE SAW CONDITIONS-ADDITIONAL INCH* CASES INCLUDE CUTTING PROCESS TIME ONLY
					200	CASE 01 FIRST LINEAR INCH, MATERIAL .032-.045 INCH THICKNESS
					90	02 EACH ADDITIONAL LINEAR INCH, MATERIAL .032-.045 INCH THICKNESS
					230	03 FIRST LINEAR INCH, MATERIAL .046-.064 INCH THICKNESS
					120	04 EACH ADDITIONAL LINEAR INCH, MATERIAL .046-.064 INCH THICKNESS
					290	05 FIRST LINEAR INCH, MATERIAL .065-.100 INCH THICKNESS
					180	06 EACH ADDITIONAL LINEAR INCH, MATERIAL .065-.100 INCH THICKNESS
NAA	807	MRA	AMRDRXX	STLCAXX	VARIABLE	AREA(DAMAGED), CUT AWAY, ALUMINUM ALLOY TO .064 INCH THICKNESS, RECTANGULAR AREA STARTS-WITH VISUAL EXAMINATION OF DAMAGED AREA INCLUDES-ALL MOTIONS NECESSARY TO MEASURE AND MARK AREA TO BE CUT, CENTER PUNCH FOUR CORNERS FOR DRILLING, SET UP AIR POWERED DRILL, PILOT DRILL AND COUNTERBORE CORNERS, CUT AWAY DAMAGED AREA WITH SNIPS, AND FINAL DRESS WITH FILE AND EMERY CLOTH ENDS-WITH ASIDE TOOLS
					26580	CASE 01 REMOVE EXTERNAL SURFACE DAMAGE TO 16 INCHES PERIMETER
					42110	02 REMOVE EXTERNAL SURFACE DAMAGE 16-28 INCHES PERIMETER
					57650	03 REMOVE EXTERNAL SURFACE DAMAGE 28-40 INCHES PERIMETER
					73190	04 REMOVE EXTERNAL SURFACE DAMAGE 40-52 INCHES PERIMETER
					88730	05 REMOVE EXTERNAL SURFACE DAMAGE 52-64 INCHES PERIMETER
NAA	807	MAA	SMRDRXX	STLDRXX	VARIABLE	DENT, REMOVE FROM ALUMINUM TO .064 INCH THICKNESS, PER SQUARE INCH STARTS-WITH GET PART INCLUDES-ALL MOTIONS NECESSARY TO MOVE PART TO WORK AREA, GET WEIGHT AND PLACE ON PART, GET BACK-UP BAR, POSITION TO DENT, GET HAMMER, STRIKE FOUR BLOWS TO DENT AREA, MAKE VISUAL EXAMINATION AFTER EACH HAMMER BLOW, ASIDE HAMMER, FEEL PART WITH HAND TO CHECK SMOOTHNESS, ASIDE BACK-UP BAR, AND ASIDE WEIGHT ENDS-WITH ASIDE PART
					801	CASE 01 FIRST SQUARE INCH OF DENT
					530	02 FIRST SQUARE INCH OF ADDITIONAL DENT
					363	03 EACH ADDITIONAL SQUARE INCH OF SAME DENT
NF	809	MAF	1272/73	4JPTSXX	VARIABLE	TRAMMEL, SET TO SCALE STARTS-WITH HAND ON TRAMMEL INCLUDES-ALL MOTIONS NECESSARY TO MOVE TRAMMEL TO SCALE, POSITION FIRST POINT, LOOSEN LOCK SCREW, MOVE SECOND POINT ALONG TRAMMEL, POSITION POINT TO SCALE, VISUALLY CHECK, AND TIGHTEN LOCK SCREW ENDS-WITH MOVE TRAMMEL ASIDE
					209	CASE 01 SET 1-MAN TRAMMEL
					295	02 SET 2-MAN TRAMMEL (TIME VALUE FOR TWO OPERATORS)

DEFENSE WORK MEASUREMENT STANDARD TIME DATA ELEMENTS

DATA SOURCE	OCCUP- ATION	QUALITY	SOURCE CODE	DWMSTOP ELEMENT	TMU VALUE	OPERATION/ELEMENT DESCRIPTION
NF	809	MAF	1078	MTLDU01	152	DIVIDERS, USE TO SCRIBE 90-DEGREE ARC STARTS-WITH DIVIDERS IN HAND INCLUDES-ALL MOTIONS NECESSARY TO MOVE POINT OF DIVIDERS TO CENTERPOINT, POSITION SCRIBING POINT, SCRIBE 90-DEGREE ARC, MOVE DIVIDERS AWAY, AND VISUALLY CHECK WORK ENDS-WITH DIVIDERS IN HAND CONDITION-APPLICABLE TO SCRIBING ARC TO 16-INCH RADIUS
NF	809	MAF	1112	MTLTU01	328	TRAMMEL, USE TO SCRIBE 90-DEGREE ARC, ONE OPERATOR, 36-INCH RADIUS STARTS-WITH SIDESTEP TO MOVE TRAMMEL TO WORK INCLUDES-ALL MOTIONS NECESSARY TO POSITION POINT TO PUNCH MARK, SIDESTEP TO SCRIBING END OF TRAMMEL, AND SCRIBE ARC ENDS-WITH SIDESTEP TO CENTER POINT
AF	81X	MAW	SWDEAH1	MACAA01	55	AMPERAGE, ADJUST ON AC OR DC WELDING MACHINE STARTS-WITH REACH TO CONTROL INCLUDES-ALL MOTIONS NECESSARY TO GRASP CONTROL, LOCATE SETTING, APPLY PRESSURE, MOVE TO SETTING, CHECK SETTING AND RELEASE CONTROL ENDS-WITH RELEASE CONTROL CONDITIONS-DIAL MOVED APPROXIMATELY 12 INCHES
NO	81X	MAO	LFA1W	MACCA01	56	CONTROLS (HEAT), ADJUST ON WELDING MACHINE STARTS-WITH REACH TO FIRST CONTROL INCLUDES-ALL MOTIONS NECESSARY TO TURN TWO CONTROL HANDLES TO NEW SETTINGS ENDS-WITH RELEASE SECOND CONTROL HANDLE CONDITIONS-CONTROL HANDLES TURNED APPROXIMATELY 45 DEGREES
NF	81X	MAF	2138	MACK001	93	KNOB, OPEN ON ACETYLENE TORCH TIP STARTS-WITH REACH TO TIP HANDLE INCLUDES-ALL MOTIONS NECESSARY TO OBTAIN TORCH TIP FROM HANGER, GET KNOB, LOOSEN, AND TURN KNOB TO OPEN VALVE ENDS-WITH RELEASE OF KNOB
AE	81X	MAW	SWDEAG1	MACMT01	74	MACHINE (WELDING), TURN ON OR OFF STARTS-WITH BEND TO SWITCH OR BUTTON INCLUDES-ALL MOTIONS NECESSARY TO BEND TO SWITCH OR BUTTON, ACTUATE SWITCH OR BUTTON, AND ARISE ENDS-WITH ARISE FROM BEND
AE	81X	MAW	SWDEAS1	MACVT01	69	VALVE (ACETYLENE AND OXYGEN), TURN OFF STARTS-WITH REACH TO ACETYLENE VALVE INCLUDES-ALL MOTIONS NECESSARY TO CLOSE ACETYLENE VALVE, REACH TO AND CLOSE OXYGEN VALVE ENDS-WITH RELEASE OF VALVE
NF	81X	MAF	1256	MCLSCXX	VARIABLE	SLAG, CHIP WITH CHIPPING HAMMER, CHISEL, AND BRUSH STARTS-WITH SIMO REACH TO HAMMER AND CHISEL INCLUDES-ALL MOTIONS NECESSARY CHIP SLAG WITH HAMMER AND CHISEL, ASIDE HAMMER AND CHISEL, GET WIRE BRUSH, AND BRUSH OFF SLAG ENDS-WITH ASIDE BRUSH CONDITIONS-GENERALLY APPLICABLE TO REMOVAL OF SLAG AFTER BURNING OR CUTTING OPERATION CASE 01 FIRST LINEAR FOOT 02 EACH ADDITIONAL LINEAR FOOT (WITHOUT GET AND ASIDE TOOLS)

717
588

DEFENSE WORK MEASUREMENT STANDARD TIME DATA ELEMENTS

DATA SOURCE	OCCUPATION	QUALITY	SOURCE CODE	DWMSTOP ELEMENT	TMU VALUE	OPERATION/ELEMENT DESCRIPTION
NF	81X	MAF	1251	MCLSKXX VARIABLE	416 301	SCALE,KNOCK FROM WELD WITH HAMMER AND BRUSH STARTS-WITH GET HAMMER INCLUDES-ALL MOTIONS NECESSARY TO TAP WELD WITH HAMMER ONCE PER INCH TO LOOSEN SCALE, ASIDE HAMMER,GET BRUSH,AND BRUSH SCALE AWAY ENDS-WITH ASIDE BRUSH CASE 01 FIRST LINEAR FOOT OF WELD 02 EACH ADDITIONAL LINEAR FOOT OF WELD
NO	81X	MAO	LHWIW/Y	MCLSRXX VARIABLE	136 52	SLAG,REMOVE WITH CHIPPING HAMMER STARTS-WITH GET TOOL INCLUDES-ALL MOTIONS NECESSARY TO POSITION TOOL,STRIKE AND CHIP SLAG,CHECK SURFACE AND MOVE TOOL ASIDE ENDS-WITH RELEASE OF TOOL CONDITIONS-GENERALLY APPLICABLE TO REMOVING SLAG AFTER BURNING OR GOUGING OPERATION CASE 01 FIRST OR SINGLE INCH OF SLAG CHIPPED 02 EACH ADDITIONAL INCH OF SLAG CHIPPED
NO	81X	MAO	LHWIN2	MCLSS01	30	SPATTER,SCRAPE PER INCH OF WELD STARTS-WITH SCRAPER POSITIONED FOR USE INCLUDES-ALL MOTIONS NECESSARY TO SCRAPE SPATTER FROM ONE INCH OF WELD ENDS-WITH ONE INCH OF WELD CLEANED
NAA	81X	MAA	OTLWSXX	MCLJCXX VARIABLE	143 80	TIP,CLEAN WITH SANDPAPER,WELDING GUN STARTS-WITH GET SANDPAPER,TIP IN HAND INCLUDES-ALL MOTIONS NECESSARY TO USE SANDPAPER TO CLEAN WELDING GUN TIP ENDS-WITH ASIDE SANDPAPER CASE 01 ROLLER TIP GUN 02 POINTER TIP GUN
NF	81X	MAF	1270	MCLTC03	224	TIP,CLEAN WITH EMERY CLOTH WRAPPED AROUND FILE,SPOT WELDER STARTS-WITH TOOL IN HAND INCLUDES-ALL MOTIONS NECESSARY TO USE EMERY TO CLEAN TWO ELECTRODE TIPS ENDS-WITH FILE AND EMERY IN HAND
FFD	81X	TBA	KWLPTS8	MCLTD01	728	TIP(ELECTRODE-WELDER),DRESS STARTS-WITH REACH TO GET DRESSING BOARD INCLUDES-ALL THE MOTIONS NECESSARY TO GET DRESSING BOARD,DRESS TIP TO A SMOOTH FINISH AND ASIDE BOARD ENDS-WITH ASIDE DRESSING BOARD
NO	81X	MAC	LFAIR1	MGMPC01	143	PART,CHECK FOR WARPAGE WITH 12-INCH SCALE STARTS-WITH REACH TO SCALE INCLUDES-ALL MOTIONS NECESSARY TO GET SCALE, BEND,POSITION SCALE TO PART,VISUALLY CHECK PART FOR WARPAGE,ARISE AND ASIDE SCALE ENDS-WITH RELEASE OF SCALE
FFD	81X	MAA	KWLSUAD	MJPCC01	546	CABLE(ELECTRODE HOLDER),CONNECT/DISCONNECT TO/FROM ARC WELDER STARTS-WITH REACH TO GET HOLDER CABLE INCLUDES-ALL THE MOTIONS NECESSARY TO GET HOLDER,STOOP TO WELDER,INSERT CABLE INTO WELDER,ARISE,STOOP,GRASP AND REMOVE CABLE, ARISE ENDS-WITH HOLDER IN HAND CONDITIONS-INCLUDES TIME FOR BOTH CONNECT AND DISCONNECT

DEFENSE WORK MEASUREMENT STANDARD TIME DATA ELEMENTS

DATA SOURCE	OCCUP- ATION	QUALITY	SOURCE CODE	OWMSTOP ELEMENT	TMU VALUE	OPERATION/ELEMENT DESCRIPTION
AF	81X	MAA	636	MJPEC01	350	ELECTRODE(UNGSTEN), CHANGE IN TORCH STARTS-WITH TORCH AND ELECTRODE IN HAND INCLUDES-ALL THE MOTIONS NECESSARY TO LOOSEN ELECTRODE SECURING NUT, SCREW OFF NUT, PALM NUT, REMOVE ELECTRODE, ASIDE TO WORKBENCH(NUT AND ELECTRODE), PICK UP NEW ELECTRODE ON WORKBENCH, INSERT ELECTRODE, GET SECURING NUT FROM BENCH AND INSTALL ON TORCH TIP ENDS-WITH RELEASE OF NUT
AF	81X	MAW	SWDEAR1	MJPFA01	94	FLAME, ADJUST ON HAND TORCH STARTS-WITH REACH TO KNOB ON OXYGEN VALVE INCLUDES-ALL MOTIONS NECESSARY TO TURN OXYGEN VALVE, TURN ACETYLENE VALVE KNOB, FOCUS EYES, ADJUST OXYGEN VALVE AND CHECK FLAME ENDS-WITH RELEASE VALVE
NO	81X	MAO	LHWI2	MJPGP01	110	GOGGLES(BURNING), PUT ON AND REMOVE STARTS-WITH REACH TO GOGGLES ON TOP OF HEAD INCLUDES-ALL MOTIONS NECESSARY TO MOVE AND ADJUST GOGGLES OVER EYES; REACH TO GOGGLES AND MOVE THEM TO TOP OF HEAD ENDS-WITH RELEASE GOGGLES CONDITIONS-WELDING TORCH HELD IN ONE HAND WHILE PUTTING ON AND TAKING OFF GOGGLES
FFD	81X	MAA	KWLSUTA	MJPHA01	954	HOSES(OXYGEN AND ACETYLENE), ATTACH AND REMOVE TO/FROM TORCH STARTS-WITH REACH TO TOOL INCLUDES-ALL THE MOTIONS NECESSARY TO GET TOOL, GET HOSES, PLACE TO TORCH, TIGHTEN NUT TO HOLD HOSE ON TORCH WITH WRENCH, LOOSEN NUT, REMOVE HOSES AND ASIDE TORCH ENDS-WITH ASIDE TOOL
NF	81X	MAF	4012/13	MJPJP01	435	JACKET(WELDERS), PUT ON AND TAKE OFF STARTS-WITH JACKET IN HAND INCLUDES-ALL MOTIONS NECESSARY TO PUT JACKET ON, ZIP UP, UNZIP, AND REMOVE JACKET ENDS-WITH JACKET IN HAND
FFD	81X	MAA	KWLSUXX	MJPRCXX	VARIABLE	ROD(WELDING), CHANGE IN ELECTRODE HOLDER STARTS-WITH REACH TO ELECTRODE HOLDER AND LEAD INCLUDES-ALL THE MOTIONS NECESSARY TO GET ROD HOLDER, GET ROD, INSTALL ROD IN HOLDER(HELD WITH CLAMP), ASIDE HOLDER AFTER USE ENDS-WITH ASIDE HOLDER 161 CASE 01 CHANGE FIRST ROD 85 02 CHANGE EACH ADDITIONAL ROD(DOES NOT INCLUDE GET AND ASIDE HOLDER)
AF	81X	MAA	640	MJPRR01	83	REGULATOR, READJUST, TWO TANKS STARTS-WITH REACH TO REGULATOR INCLUDES-ALL THE MOTIONS NECESSARY TO GRASP REGULATOR HANDLE AND TURN, ADJUST, REACH TO SECOND REGULATOR HANDLE, TURN HANDLE TO ADJUST, RELEASE HANDLE ENDS-WITH RELEASE HANDLE CONDITIONS-APPLICABLE TO ADJUSTING PRESSURE REGULATORS ON TWO OXY-ACETYLENE WELDING TANKS
FFF	81X	MAA	MJPCE04	MJPSP01	173	SHIELD(WELDING), PUT ON AND REMOVE STARTS-WITH REACH TO PROTECTIVE SHIELD INCLUDES-ALL MOTIONS NECESSARY TO GET WELDERS PROTECTIVE SHIELD, PUT SHIELD ON AND LOWER COVER OVER FACE; AND REMOVE AND ASIDE SHIELD ENDS-WITH ASIDE SHIELD CONDITIONS-DOES NOT INCLUDE TIME FOR ADJUSTING HEADBAND

DEFENSE WORK MEASUREMENT STANDARD TIME DATA ELEMENTS

DATA SOURCE	OCCUP- ATION	QUALITY	SOURCE CODE	DWMSTOP ELEMENT	TMU VALUE	OPERATION/ELEMENT DESCRIPTION
AF	81X	MAA	261	MJPSR01	76	SHIELD(WELDING), RAISE AND LOWER STARTS-WITH REACH TO HOOD(ION HEAD) INCLUDES-ALL THE MOTIONS NECESSARY TO GRASP AND LOWER HOOD(SHIELD) INTO POSITION TO WELD, RELEASE HOOD, REACH, GRASP, RAISE AND RELEASE HOOD ENDS-WITH RELEASE HOOD(SHIELD)
NF	81X	MAF	2685	MJPTD01	251	TIP(TORCH), DETACH BY HAND STARTS-WITH REACH TO TORCH INCLUDES-ALL MOTIONS NECESSARY TO GET TORCH, SCREW TIP OFF BY HAND, AND PLACE TIP ASIDE ENDS-WITH RELEASE OF TIP
NF	81X	MAF	3043	MJPTD02	104	TIP(ELECTRODE), DETACH FROM SPOTWELDER STARTS-WITH REACH TO TIP, HAMMER IN OTHER HAND INCLUDES-ALL MOTIONS NECESSARY TO TAP ELECTRODE TIP WITH HAMMER TO LOOSEN, AND REMOVE TIP ENDS-WITH TIP AND HAMMER IN HAND
NF	81X	MAF	3345	MJPTI01	121	TIP(ELECTRODE), INSTALL ON SPOTWELDER STARTS-WITH TIP AND HAMMER IN HAND INCLUDES-ALL MOTIONS NECESSARY TO MOVE TIP TO ELECTRODE, POSITION, AND TAP WITH HAMMER ENDS-WITH HAMMER IN HAND
FFE	81X	MAA	GTLTAA1	MJPTLO1	67	TORCH(ACETYLENE), LIGHT WITH FRICTION TYPE IGNITER STARTS-WITH TORCH IN HAND-GAS VALVE OPEN INCLUDES-ALL MOTIONS NECESSARY TO GET IGNITER, PLACE IGNITER TO TORCH, STRIKE IGNITER ONE TIME, AND ASIDE IGNITER ENDS-WITH RELEASE OF IGNITER
NF	81X	MAF	2358	MJPTRO1	119	TENSION, RELEASE ON OXY-ACETYLENE WELDING REGULATOR STARTS-WITH REACH TO HANDLE INCLUDES-ALL THE MOTIONS NECESSARY TO TURN REGULATOR HANDLE TO RELEASE TENSION, RELEASE HANDLE ENDS-WITH RELEASE HANDLE
NF	81X	MAF	2357	MJPVTO1	321	VALVE(OXY-ACETYLENE CYLINDER), TURN OFF STARTS-WITH WRENCH IN HAND, STANDING AT CYLINDER INCLUDES-ALL THE MOTIONS NECESSARY TO POSITION WRENCH ON CYLINDER VALVE, TURN WRENCH FOUR TIMES(EIGHT INCH MOVE) TO TURN VALVE OFF ENDS-WITH VALVE TURNED OFF, WRENCH IN HAND ON VALVE
FFD	81X	TAA	KWLPTSA	MJPWP01	5206	WELDER(SPOT), PREPARE(ADJUST HEAT) STARTS-WITH HAND ON CONTROL DIALS INCLUDES-ALL THE MOTIONS NECESSARY TO ADJUST TEMPERATURE AND PRESSURE CONTROLS TO DESIRED OPERATING RANGE ENDS-WITH WELDER READY TO OPERATE-HANDS ON CONTROL CONDITIONS-INCLUDES ALL NECESSARY ADJUSTMENTS AND PREHEAT TIME
FFD	81X	MAA	KWLSUTB	SJPTC01	669	TIP(OXY-ACETYLENE TORCH), CHANGE WITH WRENCH STARTS-WITH REACH TO OPEN TOOL BOX INCLUDES-ALL MOTIONS NECESSARY TO GET WRENCH AND TIP FROM OPEN TOOLBOX, PLACE TIP IN WORK AREA, GET TORCH, REMOVE TIP NUT, ASIDE TIP, GET NEW TIP, PLACE ON TORCH, TIGHTEN TIP NUT, ASIDE TORCH, AND ASIDE WRENCH ENDS-WITH RELEASE OF WRENCH

DEFENSE WORK MEASUREMENT STANDARD TIME DATA ELEMENTS

DATA SOURCE	OCCUPATION	QUALITY	SOURCE CODE	DWMSTOP ELEMENT	TMU VALUE	OPERATION/ELEMENT DESCRIPTION
MAA	81X	MRA	SWLEVW1	SJPTGXX	VARIABLE	TIP(ELECTRODE),GRIND STARTS-WITH REACH TO BENCH DRAWER INCLUDES-ALL THE MOTIONS NECESSARY TO OPEN DRAWER,GET BOX OF ELECTRODE TIPS OUT OF DRAWER AND CLOSE DRAWER,TURN ON GRINDER,GET TIP FROM BOX,POSITION TO GRINDING WHEEL,MOVE TIP TO GRIND,DIP TIP IN WATER AFTER GRINDING,EXAMINE TIP,REGRIND TIP WHEN REQUIRED,PLACE TIP IN BOX AND TURN OFF GRINDER,PLACE BOX OF TIPS ON BENCH ENDS-WITH PLACE BOX OF TIPS ON BENCH CASE 01 GRIND FIRST OR SINGLE TIP 02 GRIND EACH ADDITIONAL TIP 03 REGRIND WHEN REQUIRED
					462 205 165	
OL	81X	MAF	SJPTLO1	SJPTLO1	349	TORCH(OXY-ACETYLENE),LIGHT AND TURN OFF STARTS-WITH REACH TO TORCH INCLUDES-ALL MOTIONS NECESSARY TO OBTAIN TORCH FROM HANGER,OPEN ACETYLENE VALVE,GET IGNITER,LIGHT TORCH,ASIDE IGNITER,OPEN OXYGEN VALVE,ADJUST FLAME;AND TURN VALVES OFF ENDS-WITH ASIDE TORCH TO HANGER
NAA	81X	MUA	OTLWSXX	SNFSWXX	VARIABLE	SPOT(OR SEAM),WELD STARTS-WITH GET GROUND CABLE INCLUDES-ALL MOTIONS NECESSARY TO ATTACH GROUND CABLE,PUT ON GLOVES,GET METAL AND POSITION FOR WELDING,GET WELDING GUN,WELD, ASIDE GUN,AND REMOVE GLOVES ENDS-WITH REMOVE AND ASIDE GROUND CABLE CASE 01 WELD FIRST TWO INCH SEAM IN STAINLESS STEEL FOIL TO .004 INCH WITH ROLLER TIP GUN 02 EACH ADDITIONAL TWO INCH SEAM IN STAINLESS STEEL FOIL TO .004 INCH WITH ROLLER TIP GUN 03 WELD FIRST TWO SPOTS IN STAINLESS STEEL TO .010 INCH WITH POINTER TIP GUN 04 EACH ADDITIONAL SPOT IN STAINLESS STEEL TO .010 INCH WITH POINTER TIP GUN
					769 174 741 50	
FFD	81X	MAA	KWLSPPX	SNFWAXX	VARIABLE	WELD(SPOT),ACCOMPLISH STARTS-WITH REACH TO MAIN SWITCH INCLUDES-ALL THE MOTIONS AND TIME NECESSARY TO TURN ON MAIN SWITCH,PUT ON AND REMOVE APRON, GLOVES(LOOSE FIT),FACE SHIELD,REMOVE BOTH ELECTRODES,INSTALL ELECTRODES,PRESS TIP,TURN MACHINE ON,PREPARE SPOT WELDER(ADJUST HEAT), GET PART,WELD SPOT,ASIDE PART,TURN OFF MACHINE ENDS-WITH REMOVE PROTECTIVE CLOTHING CASE 01 SPOT WELD FIRST OR SINGLE SPOT 02 SPOT WELD EACH ADDITIONAL SPOT WITH ONE TO THREE INCH SPACING
					8306 89	
NAA	81X	MUA	OTLWSXX	SNFWXXX	VARIABLE	SPOT(OR SEAM),WELD ON SCIAKY STATIONARY WELDING MACHINE STARTS-WITH GET PART INCLUDES-ALL MOTIONS NECESSARY TO MOVE PART IN POSITION FOR WELDING,WELD SPOT OR SEAM,AND REMOVE PART ENDS-WITH ASIDE PART CASE 01 WELD ONE SPOT ON MID-RANGE REPEAT CYCLE,ALUMINUM OR STEEL TO .090 INCH THICKNESS 02 WELD FIRST TWO INCH SEAM,ALUMINUM OR STEEL TO .050 INCH THICKNESS,MACHINE SPEED 20 INCHES PER MINUTE 03 EACH ADDITIONAL TWO INCHES OF SEAM, ALUMINUM OR STEEL TO .050 INCH,MACHINE SPEED 20 INCHES PER MINUTE
					212 811 167	

DEFENSE WORK MEASUREMENT STANDARD TIME DATA ELEMENTS

DATA SOURCE	OCCUPATION	QUALITY	SOURCE CODE	OWNSTOP ELEMENT	TMU VALUE	OPERATION/ELEMENT DESCRIPTION
AE	81X	MAW	SWDE4M	MOHTPO1	355	TANK, PUT ON HAND TRUCK STARTS-WITH REACH TO HAND TRUCK HANDLES INCLUDES-ALL MOTIONS NECESSARY TO GET HAND TRUCK, TILT TRUCK AND WALK THREE PACES TO MOVE TRUCK TO DESIRED POSITION, RELEASE TRUCK, REACH TO TANK, TIP TANK TO SIDE, MOVE HAND TRUCK UNDER TANK, GET TRUCK HANDLES AND TILT TRUCK WITH LOAD TAKING TWO STEPS TO BALANCE HAND TRUCK ENDS-WITH TANK BALANCED ON HAND TRUCK
AE	81X	MAW	SWDE4M	MOHTRO1	126	TANK, REMOVE FROM HAND TRUCK STARTS-WITH RELEASE HANDLES OF HAND TRUCK INCLUDES-ALL MOTIONS NECESSARY TO TILT TANK, PULL HAND TRUCK FROM UNDER TANK AND SET TANK DOWN ENDS-WITH RELEASE TANK
FFD	81X	TAA	KWLPTSC	8PTSWO1	68	SPOT, WELD STARTS-WITH MATERIAL IN POSITION TO WELD INCLUDES-ALL THE TIME NECESSARY TO WELD ONE SPOT WITH SPOT WELDER ENDS-WITH SPOT WELDED AND READY TO MOVE MATERIAL TO NEXT SPOT CONDITIONS-TIME IS NOT INCLUDED TO MOVE MATERIAL ON OR OFF SPOT
AF	81X	MAA	604	MSYCAO1	187	CYCLE DIALS (SPOT WELDING MACHINE), ADJUST STARTS-WITH REACH TO DIAL INCLUDES-ALL THE MOTIONS NECESSARY TO GRASP AND TURN FIRST DIAL, CHECK FOR PROPER SETTING, TURN "HOLD" DIAL AND CHECK FOR PROPER SETTING, TURN "OFF" DIAL AND CHECK FOR PROPER SETTING, TURN IGNITION SWITCH ON, RELEASE SWITCH ENDS-WITH RELEASE IGNITION SWITCH
NAA	81X	MUA	OTLWSXX	SSUMSO1	3995	MACHINE (WELDING), SET UP, SCIAKY OR SIMILAR AND TEST WELD THREE SPOTS STARTS-WITH TURN AND WALK TO LEFT HAND PANEL INCLUDES-ALL MOTIONS NECESSARY TO ADJUST THREE DIALS, RETURN THREE PACES TO WELD POSITION, TURN AND WALK THREE PACES TO RIGHT HAND PANEL, ADJUST AIR PRESSURE, ADJUST ELECTRICAL CONTACT PRESSURE, RETURN TO WELD POSITION, ACTUATE "RAISE" SWITCH, CLEAN ELECTRODES, ACTUATE "LOWER" SWITCH, GET AIR HOSE AND BLOW OFF ELECTRODES, ASIDE AIR HOSE, GET TEST STRIPS, WELD THREE SPOTS, VISUALLY CHECK SPOTS, ASIDE STRIPS, GET TEST STRIPS AND WELD-TH BANK, ASIDE STRIP, GET TEST STRIPS AND WELD-TH BANK, GET "TH STRIP", CARRY THREE PACES TO TENSION TESTER, PERFORM TENSION TEST ON EACH OF TWO WELDS, AND RETURN TO WELD POSITION ENDS-WITH SETUP AND TESTS COMPLETE CONDITIONS-ALUMINUM OR STEEL TO .090 INCH THICKNESS

DEFENSE WORK MEASUREMENT STANDARD TIME DATA ELEMENTS

DATA SOURCE	OCCUP- ATION	QUALITY	SOURCE CODE	DWMSTOP ELEMENT	TMU VALUE	OPERATION/ELEMENT DESCRIPTION
NAA	81X	MAA	OTLWSXX	SSUMS02	3461	MACHINE(WELDING),SET UP,SCIACKY OR SIMILAR AND TEST WELD ONE TWO INCH SEAM STARTS-WITH TURN AND WALK TO LEFT HAND PANEL INCLUDES-ALL MOTIONS NECESSARY TO ADJUST THREE DIALS,RETURN THREE PACES TO WELD POSITION;TURN TO RIGHT SIDE PANEL,ADJUST AIR PRESSURE AND ELECTRICAL CONTACT PRESSURE,TURN AND WALK ONE PACE TO RIGHT HAND PANEL,ADJUST MOTOR SPEED RHEOSTAT,RETURN TO WELD POSITION,CLEAN TOP AND BOTTOM WHEELS WITH SANDPAPER,WIPE WHEELS WITH CLOTH TO REMOVE DUST,TURN,GET TEST STRIPS, TURN,PLACE STRIPS TO WHEELS,WELD TWO INCH SEAM,VISUALLY CHECK SEAM,GET PLIERS,BEND EACH STRIP 90 DEGREES,ASIDE PLIERS,ATTACH CLAMPS, PERFORM SHEAR TEST,AND REMOVE CLAMPS ENDS-WITH ASIDE STRIP CONDITIONS-ALUMINUM OR STEEL TO .050 INCH THICKNESS
NO	81X	MAO	LHWIF1	MTPTIO1	119	TOOL,INSERT AND REMOVE,AIR HAMMER STARTS-WITH REACH TO TOOL INCLUDES-ALL MOTIONS NECESSARY TO GET TOOL,POSITION AND INSERT IN AIR HAMMER;REACH TO TOOL,DISENGAGE AND ASIDE TOOL ENDS-WITH RELEASE OF TOOL
FFD	810	MAA	KWLSUTE	MJPEQ01	221	ELECTRODE(HELI-ARC WELDING),GRIND STARTS-WITH REACH TO SWITCH INCLUDES-ALL THE MOTIONS NECESSARY TO TURN ON PEDESTAL GRINDER,GRIND ELECTRODE,INSPECT TIP,TURN OFF GRINDER ENDS-WITH TURN OFF GRINDER
FFD	810	MAA	KWLSUAA	MJPM01	303	MACHINE(ARC WELDING),SET UP STARTS-WITH STOOP TO WELDING MACHINE INCLUDES-ALL THE MOTIONS NECESSARY TO STOOP, TURN MACHINE ON,SET RANGE CONTROL DIAL FOR CORRECT HEAT RANGE,GET AND ATTACH GROUND CLAMP TO WORK AND GROUND,REMOVE AND ASIDE CLAMP, ARISE FROM STOOP ENDS-WITH ARISE FROM STOOP
FFD	810	MAA	KWLSUAE	MJPPC01	293	POLARITY(ARC WELDING MACHINE),CHANGE STARTS-WITH BEND TO MACHINE INCLUDES-ALL THE MOTIONS NECESSARY TO REMOVE AND EXCHANGE NEGATIVE AND POSITIVE LEADS ENDS-WITH ARISE FROM BEND
FFD	810	MAA	KWLSUXX	SJPECXX VARIABLE	1100 377	ELECTRODE(HELI-ARC WELDING),CHANGE STARTS-WITH HOLDER IN HAND INCLUDES-ALL THE MOTIONS NECESSARY TO GRASP AND REMOVE CAP,ASIDE CAP,GET AND ASIDE COLLET AND ELECTRODE,REMOVE AND ASIDE CUP,LOOSEN COLLET HOLDER,PLACE COLLET IN TORCH,PLACE ELECTRODE IN TORCH,SCREW IN CUP AND TIGHTEN, SCREW CAP ON AND PLACE ELECTRODE TO WORK PIECE ENDS-WITH ELECTRODE IN POSITION TO WELD CASE 01 REMOVE ELECTRODE OF ONE SIZE,REPLACE WITH ELECTRODE OF ANOTHER SIZE 02 REMOVE ELECTRODE AND REPLACE WITH ELECTRODE OF SAME SIZE
DL	810	MAF	SJPRC01	SJPRC01	354	ROD(WELDING),CHANGE IN ELECTRODE HOLDER STARTS-WITH BREAK ARC AND MOVE ROD FROM WORK INCLUDES-ALL MOTIONS NECESSARY TO RAISE HOOD, OPEN CLAMP,REMOVE ROD FROM HOLDER,GET ROD, PLACE IN HOLDER,CLOSE CLAMP,MOVE ROD OVER WORK,LOWER HOOD,MOVE ROD TO WORK,AND STRIKE ARC ENDS-WITH ROD IN POSITION FOR WELDING

DEFENSE WORK MEASUREMENT STANDARD TIME DATA ELEMENTS

DATA SOURCE	OCCUPATION	QUALITY	SOURCE CODE	DWMSTOP ELEMENT	TMU VALUE	OPERATION/ELEMENT DESCRIPTION
AE	810	MAW	SWDEAC1	MNFEP01	53	ELECTRODE, POSITION AND STRIKE ARC STARTS-WITH ELECTRODE IN HAND INCLUDES-ALL MOTIONS NECESSARY TO MOVE AND POSITION ELECTRODE, FOCUS EYES AFTER LOWERING HOOD, STRIKE ARC, MOVE AND POSITION ELECTRODE FOR ARC WELD ENDS-WITH ELECTRODE POSITIONED FOR WELD CONDITION-TIME TO LOWER HOOD NOT INCLUDED
FFD	810	EUA	RWHAL01	MNFMAXX	VARIABLE	WELD, ACCOMPLISH, ARC WELD, PER INCH. STARTS-WITH ROD IN WELDING POSITION, ARC STARTED INCLUDES-ALL MOTIONS NECESSARY TO FUSE-WELD ONE LINEAR INCH ENDS-WITH WELD COMPLETED, ROD POSITIONED TO MATERIAL 467 CASE 01 WELD ONE LINEAR INCH, ALUMINUM OR MAGNESIUM 2080 02 WELD ONE LINEAR INCH, STAINLESS STEEL, USE .0625 INCH ROD
NAA	810	MAA	SWLIWXX	SNFWMXX	VARIABLE	WELD (INERT GAS-ARC), MAKE STARTS-WITH REACH TO WELD TORCH INCLUDES-ALL THE MOTIONS NECESSARY TO GET AND POSITION WELD TORCH TO PART, OBTAIN WELD ROD AND POSITION TO PART, FLIP HOOD DOWN WITH NOOD OF HEAD, PLACE FOOT ON PEDAL AND DEPRESS, PLACE WELD ROD TO WELD POINT, PLACE TORCH TO WELD ROD AND WELD POINT, RELEASE FOOT PEDAL, ASIDE FOOT, ASIDE ROD TO BENCH, MOVE TORCH FROM PART, RAISE HOOD, ASIDE TORCH TO HOLDER ON BENCH ENDS-WITH ASIDE TORCH CONDITIONS-APPLIES TO LINDE HW-18 OR HW-20 WELDERS OR SIMILAR-.125 INCH THICK STEEL OR ALUMINUM-INERT GAS, METAL ARC 1259 CASE 01 FIRST OR SINGLE INCH-MOVE TORCH AND ROD 16 TIMES TO MAKE WELD 784 02 EACH ADDITIONAL INCH-MOVE TORCH AND ROD 16 TIMES TO MAKE WELD 578 03 TACK WELD-FIRST OR SINGLE SPOT-MOVE TORCH AND ROD TWO TIMES TO MAKE WELD 408 04 TACK WELD-EACH ADDITIONAL SPOT-MOVE TORCH AND ROD TWO TIMES TO MAKE WELD
AF	810	OBW	151831	MOHAB01	193	ARC, BREAK AND MOVE TO NEXT WELD STARTS-WITH BREAK ARC AND MOVE ROD FROM WORK INCLUDES-ALL MOTIONS NECESSARY TO RAISE HOOD, SIDESTEP TO NEXT WELD, MOVE ROD OVER WORK, LOWER HOOD, MOVE ROD TO WORK, AND SCRATCH SURFACE TO STRIKE ARC ENDS-WITH ROD IN POSITION TO MAKE WELD
NO	811	MAO	LHWIR1	MACVOXX	VARIABLE	VALVES (BLOWPIPE OXYGEN AND ACETYLENE), OPEN AND CLOSE STARTS-WITH REACH TO OXYGEN VALVES INCLUDES-ALL MOTIONS NECESSARY TO SLIGHTLY OPEN OXYGEN VALVE, THEN REACH TO AND FULLY OPEN ACETYLENE VALVE; REACH TO OXYGEN VALVE, CLOSE, REACH TO ACETYLENE VALVE, AND CLOSE ENDS-WITH RELEASE VALVE 74 CASE 01 OPEN TWO VALVES 76 02 CLOSE TWO VALVES
NO	811	MAO	LHWID2	MCLHC01	751	HOLE (TORCH TIP), CLEAN STARTS-WITH MOVE CLEANER TO TIP INCLUDES-ALL MOTIONS NECESSARY TO POSITION CLEANER IN HOLE, MOVE BACK AND FORTH TO CLEAN HOLE AND REMOVE CLEANER FROM HOLE, SIX TIMES ENDS-WITH DISENGAGE CLEANER FROM SIXTH HOLE

DEFENSE WORK MEASUREMENT STANDARD TIME DATA ELEMENTS

DATA SOURCE	OCCUPATION	QUALITY	SOURCE CODE	DWMSTDP ELEMENT	TMU VALUE	OPERATION/ELEMENT DESCRIPTION
NO	811	MAO	LHWIE2	MCLHC02	62	HOLE(HIGH PRESSURE TIP),CLEAN STARTS-WITH MOVE TAPERED CLEANER TO HOLE INCLUDES-ALL MOTIONS REQUIRED TO POSITION CLEANER IN HOLE AND ROTATE CLEANER IN HOLE ENDS-WITH CLEANER MOVED FROM HOLE
NO	811	MAO	LHWIS1	MJPBL01	120	BLOWPIPE,LIGHT STARTS-WITH REACH TO LIGHTER IN HIP POCKET INCLUDES-ALL MOTIONS NECESSARY TO GET LIGHTER, POSITION IT TO BLOWPIPE TIP,STRIKE LIGHTER, MOVE LIGHTER FROM FLAME,AND RETURN LIGHTER TO POCKET ENDS-WITH RELEASE LIGHTER
NAA	811	MAA	SWLTJ01	MJPTR01	635	TIP(ELECTRODE-GAS),REPLACE STARTS-WITH REACH TO GAS CAP ON TORCH INCLUDES-ALL THE MOTIONS NECESSARY TO GRASP AND LOOSEN GAS CAP(THREE TURNS),REPLACE CAP AND GRASP ELECTRODE TIP,DISENGAGE TIP FROM GAS LENS COLLET BODY AND ASIDE TIP,PICK UP PROPER TIP AND INSTALL IN COLLET,GRASP GAS CAP AND TURN DOWN THREE TURNS,TIGHTEN CAP,RELEASE CAP ENDS-WITH RELEASE CAP CONDITIONS-FOR LINDE HW-18 AND HW-20 WELDING TIPS
NO	811	MAO	LHWIU1	MOHBP01	45	BLOWPIPE,POSITION TO METAL STARTS-WITH BLOWPIPE IN RIGHT HAND INCLUDES-ALL MOTIONS NECESSARY TO MOVE BLOW- PIPE TO LEFT HAND AND USE TWO HANDS TO POSITION TIP OF BLOWPIPE TO POINT OF CUT ENDS-WITH BLOWPIPE IN POSITION TO CUT
AF	813	MAA	608	MSLTS01	129	THYRATON CONTROLS(SPOT WELDING MACHINE),SET STARTS-WITH REACH TO FIRST CONTROL INCLUDES-ALL THE MOTIONS NECESSARY TO POSITION POINT AND CHECK READING FOR FIRST CONTROL, SET RANGE SWITCH AND CHECK RANGE,ADJUST PER- CENT CONTROL POINTER,RELEASE CONTROL ENDS-WITH RELEASE PERCENT CONTROL
AF	814	MAA	8	SJPPP01	280	PRESSURE,PUMP IN BLOW TORCH TANK STARTS-WITH SIMO REACH TO TANK AND PUMP HANDLE INCLUDES-ALL MOTIONS NECESSARY TO LOOSEN VALVE SEAT BY TURNING PUMP HANDLE,MOVE HANDLE UP AND DOWN EIGHT STROKES TO BUILD PRESSURE,AND TIGHTEN VALVE SEAT ENDS-WITH RELEASE OF TORCH AND HANDLE
NF	814	MAF	1257	MNFSAXX	VARIABLE	SOLDER,APPLY TO SEAM OR JOINT,SHEET METAL STARTS-WITH SOLDER AND IRON IN HAND INCLUDES-ALL MOTIONS NECESSARY TO MOVE SOLDER AND IRON TO JOINT,MOVE SOLDER AND IRON OVER JOINT TO SPREAD SOLDER,MOVE SOLDER AWAY,AND MOVE IRON AWAY ENDS-WITH SOLDER AND IRON IN HAND CONDITIONS-TIME FOR HEATING IRON AND SOLDER NOT INCLUDED 46 12 CASE 01 FIRST LINEAR INCH 02 EACH ADDITIONAL LINEAR INCH WITHOUT LIFTING IRON AND SOLDER FROM WORK
AF	816	MAA	146	MACFE01	78	FEED(FLAME CUTTING MACHINE),ENGAGE TO START AND TURN OFF STARTS-WITH REACH TO SWITCH BUTTON INCLUDES-ALL THE MOTIONS NECESSARY TO TURN SWITCH BUTTON ON AND OFF,MOVE CLUTCH LEVER TO ENGAGE ENDS-WITH TURN OFF SWITCH CONDITIONS-RADIOGRAPH TYPE MACHINE

DEFENSE WORK MEASUREMENT STANDARD TIME DATA ELEMENTS

DATA SOURCE	OCCUP- ATION	QUALITY	SOURCE CODE	OWMSTDP ELEMENT	TMU VALUE	OPERATION/ELEMENT DESCRIPTION
NF	816	MAA	3418	MJPTA01	152	TORCH(OXY-ACETYLENE-CUTTING),ADJUST FOR CUTTING BEVEL STARTS-WITH SIMO REACH TO TIP OF TORCH AND WING NUT INCLUDES-ALL THE MOTIONS NECESSARY TO GRASP AND HOLD TORCH WITH RIGHT HAND,LOOSEN WING NUT WITH LEFT HAND,PUSH TORCH TIP TO DESIRED DEGREE,TIGHTEN WING NUT,RELEASE TORCH ENDS-WITH WING NUT TIGHTENED,TORCH RELEASED
NF	816	MAA	2577	MSUBP01	145	BAR(RADIUS),PLACE IN AND REMOVE FROM FLAME CUTTING MACHINE STARTS-WITH REACH TO RADIUS BAR INCLUDES-ALL MOTIONS NECESSARY TO GET RADIUS BAR,MOVE TO MACHINE,POSITION IN SLOT;GET RADIUS BAR,REMOVE BAR FROM MACHINE,AND ASIDE BAR ENDS-WITH RELEASE OF BAR
AF	816	MAA	147	MSUMP01	91	MACHINE(FLAME CUTTING),PLACE ON RING STARTS-WITH REACH TO MACHINE INCLUDES-ALL THE MOTIONS NECESSARY TO GRASP THE MACHINE,LIFT AND PLACE MACHINE ON RING, RELEASE MACHINE,GET RADIUS BAR,POSITION RADIUS BAR IN PUNCH MARK,RELEASE MACHINE ENDS-WITH RELEASE MACHINE CONDITIONS-RADIGRAPH TYPE MACHINE
NF	816	MAA	3344	MSURP01	128	RING(FLAME CUTTING MACHINE),POSITION ON PLATE TO BURN CIRCLES STARTS-WITH RING IN HAND,REACH TO PLATE INCLUDES-ALL THE MOTIONS NECESSARY TO GET PLATE,PLACE PLATE FOR BURNING,RELEASE PLATE AND REACH BACK TO PLATE ENDS-WITH HAND RETURNED TO PLATE CONDITIONS-RADIGRAPH TYPE MACHINE-MOVE PLATE
AF	816	MAA	145	MSUSA01	65	SPEED DIAL(FLAME CUTTING MACHINE),ADJUST STARTS-WITH REACH TO DIAL INCLUDES-ALL THE MOTIONS NECESSARY TO GRASP AND TURN DIAL TO SPEED LETTER,POSITION DIAL TO LINE,RELEASE DIAL ENDS-WITH RELEASE DIAL CONDITIONS-RADIGRAPH TYPE MACHINE
AF	816	MAA	151	MSUTP01	103	TORCH ARM(FLAME CUTTING MACHINE),POSITION FOR BURNING CIRCLES OR STRAIGHT LINES STARTS-WITH REACH TO ADJUSTMENT KNOB INCLUDES-ALL THE MOTIONS NECESSARY TO ADJUST ARM TO CHALK LINE,CHECK POSITION OF ARM AND MACHINE BY MOVING IN CIRCLE BY HAND,RELEASE MACHINE ENDS-WITH RELEASE MACHINE CONDITIONS-RADIGRAPH TYPE MACHINE
NF	816	MAA	1288	MSUWR01	155	WHEEL(FLAME CUTTING MACHINE),REMOVE STARTS-WITH REACH(SIMO)TO MACHINE AND WING NUT INCLUDES-ALL MOTIONS NECESSARY TO HOLD MACHINE WITH LEFT AND LOOSEN WING NUT WITH RIGHT HAND,RELEASE MACHINE WITH LEFT HAND AND GRASP LEFT LEVER,MOVE LEVER AND REMOVE WHEEL, LOWER MACHINE,RELEASE WHEEL ASIDE ENDS-WITH RELEASE WHEEL CONDITIONS-RADIGRAPH TYPE MACHINE

DEFENSE WORK MEASUREMENT STANDARD TIME DATA ELEMENTS

DATA SOURCE	CCUP- ATION	QUALITY	SOURCE CODE	DWMSTDP ELEMENT	TMU VALUE	OPERATION/ELEMENT DESCRIPTION
AF	82X	MAA	MOE-201	MOAC101	586	COVER(RACEWAY BASE SECTION),INSTALL STARTS-WITH COVER IN HAND INCLUDES-ALL THE MOTIONS NECESSARY TO MOVE THE COVER TO THE BASE SECTION,INSERT LEADING CORNER OF COVER INTO CHANNEL,HOLD CORNER IN CHANNEL AND INSERT TRAILING EDGE OF SAME SIDE INTO CHANNEL AND HOLD,RELEASE LEADING CORNER WITH RIGHT HAND AND GRASP AND HOLD CENTER WITH PALM AND THUMB,RELEASE TRAILING CORNER WITH LEFT HAND AND GET SCREWDRIVER FROM BELT KIT, INSERT SCREWDRIVER BETWEEN COVER AND BASE SECTION OF OPPOSITE SIDE AND HOLD LEVERAGE, RELEASE COVER WITH RIGHT HAND,GET Mallet FROM BELT KIT,HAMMER SECOND EDGE INTO CHANNEL, RETURN Mallet TO BELT KIT,REMOVE AND ASIDE SCREWDRIVER ENDS-WITH RETURN SCREWDRIVER TO BELT KIT CONDITIONS=BASE SECTION AVERAGE FOUR FEET LONG
AF	82X	MAA	MOE-251	MOALC01	64	LUG(TERMINAL),CONNECT TO SWITCH STARTS-WITH SWITCH ASSEMBLY IN HAND(LEFT) INCLUDES-ALL THE MOTIONS NECESSARY TO REACH RIGHT HAND TO RACEWAY AND GRASP A CONDUCTOR, MOVE CONDUCTOR(WITH LUG TERMINAL)AND INSERT IN SWITCH,PUSH CLAMP SCREW WITH THUMB OF LEFT HAND,RELEASE CONDUCTOR ENDS-WITH SWITCH ASSEMBLY IN LEFT HAND
AF	82X	MAA	MOE-301	MOAS101	65	SOCKET(LAMP),INSERT IN REFLECTOR FITTING STARTS-WITH SOCKET IN LEFT HAND,RIGHT HAND HOLDING ASSEMBLY INCLUDES-ALL THE MOTIONS NECESSARY TO MOVE SOCKET TO FITTING AND POSITION WITH RIGHT HAND,HOLD SOCKET TO FITTING AND REACH TO FITTING WITH LEFT HAND,GRASP AND HOLD FITTING AND SOCKET BETWEEN THUMB AND FOREFINGER, RELEASE HOLD WITH RIGHT HAND,REGRAASP SOCKET AND FITTING AND ALIGN AND PRESS TOGETHER WITH BOTH HANDS,RELEASE RIGHT HAND,HOLD WITH LEFT HANDS-WITH LEFT HAND HOLDING ASSEMBLY CONDITIONS=LEE-CRAFT SOCKET
NF	82X	MAF	802/804	MJPFUXX	VARIABLE	FISHTAPE(ELECTRICAL),UNWRAP FROM AND WRAP ON REEL,PER FOOT STARTS-WITH REEL IN HAND INCLUDES-ALL MOTIONS NECESSARY TO GET END OF TAPE,PULL OUT SIX-INCH LENGTH,RELEASE TAPE,GET END,AND PULL OUT SIX-INCH LENGTH;AND GET FISHTAPE REEL,AND WRAP TAPE ON REEL ENDS-WITH FISHTAPE IN HAND CASE 01 FIRST FOOT CASE 02 EACH ADDITIONAL FOOT
NF	82X	MAF	847	MJPOP01	187	OILER,PREPARE FOR FILLING STARTS-WITH REACH TO SLIDE COVER ON OILER INCLUDES-ALL MOTIONS NECESSARY TO MOVE COVER ASIDE,PICK UP FUNNEL,PLACE IN OILER,GET OIL CONTAINER,MOVE CONTAINER INTO POSITION TO POUR,MOVE CONTAINER AWAY,MOVE FUNNEL AWAY, AND REPLACE COVER ENDS-WITH RELEASE OF COVER CONDITIONS=TIME FOR POURING OIL NOT INCLUDED. APPLICABLE TO OILERS SUCH AS THOSE FOUND ON ELECTRIC FANS AND BLOWERS
NF	82X	MAF	2396	MJPST01	161	SWITCH,TURN OFF OR ON,BRANCH LIGHTING CIRCUIT STARTS-WITH REACH TO PANEL DOOR INCLUDES-ALL MOTIONS NECESSARY TO OPEN DOOR, LOCATE SWITCH,TURN SWITCH OFF OR ON,AND CLOSE DOOR ENDS-WITH RELEASE OF DOOR CONDITIONS=DOES NOT INCLUDE TIME TO LOOK AT PANEL SCHEMATIC TO DETERMINE SWITCH NUMBER

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NF	82X	MAF	876	SNFTA01	443	TAPE, APPLY TO WIRE SPLICE STARTS-WITH REACH TO ROLL OF TAPE INCLUDES-ALL MOTIONS NECESSARY TO OBTAIN A 10-INCH LENGTH OF TAPE FROM ROLL, ASIDE ROLL OF TAPE, POSITION TAPE TO WIRE SPLICE, WRAP SPLICE SIX REVOLUTIONS, AND PRESS TAPE TO SPLICE ENDS-WITH RELEASE OF TAPED SPLICE
FFD	82X	MAA	KALED10	SNFTRO1	157	TIE (SPOT), REMOVE STARTS-WITH REACH TO GET TOOLS (CUTTER) INCLUDES-ALL THE MOTIONS NECESSARY TO GET CUTTER WITH RIGHT HAND, GRASP WIRE WITH LEFT HAND, CUT LINE WITH CUTTER (TWO CUTS), REMOVE LACING, ASIDE CUTTER AND LACING ENDS-WITH ASIDE CUTTER
FFD	82X	MAA	KALEWAX	SNFWCXX	VARIABLE	WIRE BUNDLE, COIL AND TIE STARTS-WITH REACH TO WIRE BUNDLE INCLUDES-ALL THE MOTIONS NECESSARY TO GET WIRE BUNDLE, COIL WIRE, GET AND UNWIND ONE FOOT OF LACING CORD, TIE COIL OF WIRE BUNDLE WITH THREE KNOTS, CUT LACING, ASIDE CUTTER, ASIDE WIRE BUNDLE COIL ENDS-WITH COIL ASIDE CONDITIONS-USE WHEN WIRE BUNDLE IS COILED AND SECURED TO EXISTING WIRE BUNDLE OR COILED FOR STORAGE-SPOT TIE IN THREE PLACES CASE 01 COIL AND TIE FIRST OR ONLY THREE FEET OF WIRE 1200 138 02 COIL EACH ADDITIONAL THREE FEET OF WIRE
FFD	82X	MAA	KALEA13	SNFWT01	1838	WIRE BUNDLE, TAPE AND TIE STARTS-WITH REACH TO ROLL OF TAPE INCLUDES-ALL THE MOTIONS NECESSARY TO GET ROLL OF TAPE, GET END OF TAPE AND UNROLL, CUT TAPE, ASIDE TAPE ROLL AND CUTTER, WRAP TAPE ON WIRE BUNDLE, GET AND UNWIND ONE FOOT OF LACING CORD, TIE TWO KNOTS ON TAPE AROUND WIRE BUNDLE, CUT CORD AND ASIDE CUTTER ENDS-WITH ASIDE CUTTER CONDITIONS-WRAP 24 INCHES OF INSULATING TAPE ON SIX INCHES OF WIRE BUNDLE, TIE IN TWO PLACES
NF	82X	MAF	828	MOHB101	914	BOX (JUNCTION), INSTALL ON CONDUIT STARTS-WITH GET LOCKNUT INCLUDES-ALL MOTIONS NECESSARY TO INSTALL LOCKNUT ON END OF CONDUIT (TEN THREADS), GET JUNCTION BOX, PLACE BOX ON END OF CONDUIT, GET SECOND LOCKNUT, PLACE ON END OF CONDUIT, TURN DOWN SIX THREADS BY HAND, GET SCREWDRIVER, GET HAMMER, PLACE SCREWDRIVER TO LOCK NUT INSIDE BOX, STRIKE SCREWDRIVER WITH HAMMER UNTIL NUT IS TIGHT, AND ASIDE SCREWDRIVER AND HAMMER ENDS-WITH RELEASE OF SCREWDRIVER AND HAMMER CONDITION-TIME TO REMOVE KNOCKOUT PLUG FROM JUNCTION BOX NOT INCLUDED
NF	82X	MAF	848	MOHPR01	90	PAPER, REMOVE FROM CONDUCTOR AFTER OUTER INSULATION HAS BEEN STRIPPED STARTS-WITH REACH TO PAPER INCLUDES-ALL MOTIONS NECESSARY TO UNTWIST AND REMOVE PAPER WRAPPING FROM CONDUCTOR ENDS-WITH ASIDE PAPER
NF	82X	MAF	910	MOHWA01	70	WIRE, ALIGN FOR FORMING IN ELECTRICAL BOX STARTS-WITH REACH TO WIRE INCLUDES-ALL MOTIONS NECESSARY TO APPLY PRESSURE AND MOVE INTO ALIGNMENT IN BOX. ALSO INCLUDES VISUAL CHECK OF ALIGNMENT ENDS-WITH RELEASE OF WIRE

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DATA SOURCE	OCCUP- ATION	QUALITY	SOURCE CODE	OWMSTOP ELEMENT	TMU VALUE	OPERATION/ELEMENT DESCRIPTION
NF	82X	MAF	911/913	MOHWBXX	VARIABLE	WIRE, BEND 90 DEGREES FOR FORMING IN ELECTRICAL BOX STARTS-WITH REACH TO WIRE INCLUDES-ALL MOTIONS NECESSARY TO MAKE 90- DEGREE BEND BY HAND AND TO CHECK ALIGNMENT ENDS-WITH BEND COMPLETED 99 140 CASE 01 BEND NO.10 WIRE 02 BEND NO.4 TO NO.2 WIRE
NF	82X	MAF	946	MOHWRO1	1611	WRAPPING(PAPER), REMOVE FROM COIL OF WIRE STARTS-WITH KNIFE IN HAND INCLUDES-ALL MOTIONS NECESSARY TO BEND TO COIL OF WIRE, CUT PAPER WRAPPING, ASIDE KNIFE TO TOOL POUCH, LIFT COIL ON EDGE, AND UNWRAP PAPER FROM COIL ENDS-WITH ARISE
FFD	82X	MAA	KALEA14	SOHPP01	1393	PLUG/RECEPTACLE, PLACE IN PLASTIC BAG STARTS-WITH REACH TO GET BAG INCLUDES-ALL THE MOTIONS NECESSARY TO GET BAG, OPEN AND PLACE PLUG/RECEPTACLE IN BAG, GET LACING CORD AND UNWIND ONE FOOT, TIE BAG IN TWO PLACES, CUT CORD, ASIDE SPOOL AND CUTTER ENDS-WITH ASIDE CUTTER
NF	82X	MAF	880	MTLBC01	253	BANDING, CUT ON REEL OF WIRE, CABLE, OR SIMILAR STARTS-WITH REACH TO SCREWDRIVER INCLUDES-ALL MOTIONS NECESSARY TO GET SCREWDRIVER FROM BELT KIT, INSERT SCREWDRIVER UNDER BANDING, STRETCH BANDING, RETURN SCREWDRIVER TO KIT, GET PLIERS, CUT BANDING, AND RETURN PLIERS TO BELT KIT ENDS-WITH RELEASE OF PLIERS
NF	82X	MAF	2660	MTLCRO1	175	CONDUIT, REAM END, ONE INCH DIAMETER, HAND REAMER STARTS-WITH REAMER IN HAND INCLUDES-ALL MOTIONS NECESSARY TO PLACE REAMER IN END OF CONDUIT, REAM AND REMOVE REAMER ENDS-WITH REAMER IN HAND
NF	82X	MAF	800	MTLFU01	68	FISHTAPE (ELECTRICAL), USE, FEED INTO CONDUIT STARTS-WITH FISHTAPE IN HAND INCLUDES-ALL MOTIONS NECESSARY TO PUSH ONE FOOT OF FISHTAPE INTO CONDUIT ENDS-WITH HAND ON FISHTAPE
NF	82X	MAF	805	MTLFU02	48	FISHTAPE (ELECTRICAL), USE, DISENGAGE TWO TAPES STARTS-WITH SIMO REACH TO TWO FISHTAPES INCLUDES-ALL MOTIONS NECESSARY TO SEPARATE TWO FISHTAPES BY UNHOOKING ENDS-WITH ASIDE FISHTAPES
NF	82X	MAF	819	MTLHC01	85	HOLE, CUT IN CARDBOARD CONTAINER WITH KNIFE STARTS-WITH KNIFE IN HAND INCLUDES-ALL MOTIONS NECESSARY TO CUT HOLE APPROXIMATELY FOUR INCHES IN DIAMETER IN CARDBOARD CONTAINER AND ASIDE CARDBOARD DISC ENDS-WITH KNIFE IN HAND CONDITION-APPLICABLE TO OPENING COIL OF ELECTRICAL WIRE OR SIMILAR
AF	82X	MAF	254	MTLHRO1	134	HICKEY, REPOSITION ON CONDUIT STARTS-WITH STOOP TO CONDUIT INCLUDES-ALL MOTIONS NECESSARY TO ROTATE CONDUIT, POSITION HICKEY TO BEND MARK, AND ARISE ENDS-WITH HAND ON HICKEY HANDLE

DEFENSE WORK MEASUREMENT STANDARD TIME DATA ELEMENTS

DATA SOURCE	OCCUP- ATION	QUALITY	SOURCE CODE	DWMSTOP ELEMENT	TMU VALUE	OPERATION/ELEMENT DESCRIPTION
NF	82X	MAF	839	MTLLC01	83	LUG(TERMINAL),CRIMP TO WIRE STARTS-WITH CRIMPING TOOL IN HAND INCLUDES-ALL MOTIONS NECESSARY TO GET TERMINAL LUG WITH CRIMPING TOOL AND CRIMP LUG TO WIRE ENDS-WITH ASIDE TOOL CONDITION-TIME TO PLACE LUG ON WIRE NOT INCLUDED
NF	82X	MAF	895	MTLLP01	96	LOOP,PLACE ON TERMINAL AND CLOSE WITH PLIERS STARTS-WITH MOVE LOOP TO TERMINAL,PLIERS IN HAND INCLUDES-ALL MOTIONS NECESSARY TO POSITION LOOP ON TERMINAL AND USE PLIERS TO CLOSE LOOP ON TERMINAL ENDS-WITH PLIERS IN HAND CONDITIONS-TIME FOR INITIAL BENDING OF LOUP NOT INCLUDED.APPLICABLE TO NO.8 OR SMALLER WIRE.
NF	82X	MAF	871	MTLSB01	95	SPLICE,BEND PARALLEL TO CONDUCTOR WITH PLIERS STARTS-WITH PLIERS IN HAND INCLUDES-ALL MOTIONS NECESSARY TO BEND TWISTED WIRE SPLICE PARALLEL TO CONDUCTOR ENDS-WITH PLIERS IN HAND CONDITION-APPLICABLE TO NO.8 OR SMALLER WIRE
NF	82X	MAF	834	MTLSF01	413	SPLICE,FORM WITH PLIERS,PIGTAIL SPLICE STARTS-WITH PLIERS IN HAND,WIRES POSITIONED FOR TWISTING INCLUDES-ALL MOTIONS NECESSARY TO PLACE PLIERS ON WIRES AND TWIST TO FORM SPLICE ENDS-WITH PLIERS IN HAND CONDITIONS-APPLICABLE TO SPLICING ELECTRICAL FIXTURE LEADS
NF	82X	MAF	2699	MTLTC01	343	THREAD,CUT IN CONDUIT STARTS-WITH THREADER STARTED ON CONDUIT INCLUDES-ALL THE MOTIONS NECESSARY TO MOVE HANDLE,SET RATCHET AND MOVE HANDLE TO CUT ONE THREAD ENDS-WITH ONE THREAD CUT CONDITIONS-MAKE 1/5 REVOLUTION PER STROKE
NF	82X	MAF	921	MTLWD01	192	WIRE,DISCONNECT FROM FISHTAPE AFTER PULLING STARTS-WITH KNIFE IN HAND INCLUDES-ALL MOTIONS NECESSARY TO CUT TAPE WITH KNIFE,ASIDE KNIFE,REMOVE AND ASIDE TAPE, GET PLIERS,AND CUT WIRE ENDS-WITH ASIDE PLIERS
NF	82X	MAF	750	STLCBXX	VARIABLE	CONDUIT,BEND WITH HICKEY STARTS-WITH GET HICKEY INCLUDES-ALL MOTIONS NECESSARY TO STOOP TO CONDUIT,PLACE HICKEY ON CONDUIT,POSITION HICKEY TO BEND POINT,ARISE,PLACE FOOT ON CONDUIT,BEND CONDUIT,REPOSITION HICKEY AS NECESSARY,COMPLETE BEND,STOOP,AND REMOVE HICKEY FROM CONDUIT ENDS-WITH ARISE AND ASIDE HICKEY 726 CASE 01 BEND 1/2 INCH RIGID CONDUIT 45 DEGREES 1092 02 BEND 1/2 INCH RIGID CONDUIT 90 DEGREES 745 03 BEND 3/4 INCH RIGID CONDUIT 45 DEGREES 1131 04 BEND 3/4 INCH RIGID CONDUIT 90 DEGREES 791 05 BEND 1 INCH RIGID CONDUIT 45 DEGREES 1226 06 BEND 1 INCH RIGID CONDUIT 90 DEGREES 1205 07 BEND STUB OFFSET IN RIGID CONDUIT 1 INCH OR LESS IN DIAMETER

DEFENSE WORK MEASUREMENT STANDARD TIME DATA ELEMENTS

DATA SOURCE	OCCUP- ATION	QUALITY	SOURCE CODE	DWMSTOP ELEMENT	TMU VALUE	OPERATION/ELEMENT DESCRIPTION
FFD	82X	MAA	KALEW8X	STLPCXX VARIABLE		PLUG(COAXIAL), CUT FROM CABLE STARTS=WITH REACH TO CUTTERS INCLUDES=ALL THE MOTIONS NECESSARY TO GET CUTTERS, GET CABLE, POSITION CUTTERS(PLIERS) TO CABLE AND CUT PLUG FROM CABLE, ASIDE PLUG AND CUTTERS ENDS=WITH ASIDE PLUG/CUTTERS CASE 01 CUT FIRST OR SINGLE PLUG FROM CABLE 02 CUT EACH ADDITIONAL PLUG FROM CABLE
					195 133	
NF	82X	MAF	754	STLT8XX VARIABLE		TURING(ELECTRICAL METALLIC), BEND WITH MANUAL BENDER STARTS=WITH GET BENDER INCLUDES=ALL MOTIONS NECESSARY TO STOOP TO BENDER, PLACE BENDER ON ELECTRICAL METALLIC TUBING(EMT), POSITION BENDER TO BEND POINT, ARISE, PLACE FOOT ON TUBING TO HOLD, BEND TUBING, STOOP, REMOVE BENDER, AND ARISE ENDS=WITH ASIDE BENDER CASE 01 BEND UP TO 1 INCH EMT 45 DEGREES 02 BEND UP TO 1 INCH EMT 90 DEGREES 03 BEND STUB OFFSET IN UP TO 1 INCH EMT (MAKE TWO 45-DEGREE BENDS).
					519 541 791	
NF	82X	MAF	860	MTPAPO1	108	ARM(RAM), PULL TO FREE ANVIL, HYDRAULIC CONDUIT BENDER STARTS=WITH BEND AND REACH TO RAM ARM INCLUDES=ALL MOTIONS NECESSARY TO HOLD RAM JACK HOUSING WITH ONE HAND AND PULL RAM ARM WITH OTHER HAND ENDS=WITH RELEASE RAM ARM AND HOUSING AND ARISE
NF	82X	MAF	758	MTPC8XX VARIABLE		CONDUIT, BEND WITH HYDRAULIC BENDER STARTS=WITH STOOP TO CONDUIT BENDER INCLUDES=ALL MOTIONS NECESSARY TO GET HANDLE, PUMP HANDLE TO BEND CONDUIT, SHIFT CONDUIT IN BENDER AS NECESSARY, AND RELEASE HANDLE WHEN BEND IS COMPLETED ENDS=WITH ARISE FROM STOOP CONDITIONS=DOES NOT INCLUDE INSTALLATION IN OR REMOVAL FROM BENDER CASE 01 BEND 1 1/4 INCH CONDUIT 45 DEGREES 02 BEND 1 1/4 INCH CONDUIT 90 DEGREES 03 BEND 1 1/2 INCH CONDUIT 45 DEGREES 04 BEND 1 1/2 INCH CONDUIT 90 DEGREES 05 BEND 2 INCH CONDUIT 45 DEGREES 06 BEND 2 INCH CONDUIT 90 DEGREES 07 BEND 2 1/2 INCH CONDUIT 90 DEGREES 08 BEND 3 INCH CONDUIT 90 DEGREES 09 BEND 4 INCH CONDUIT 90 DEGREES
					1975 2920 2810 4256 5170 8976 12435 14216 28153	
AF	82X	MAA	MDE=3J	MWHS01	120	SPLICE(CENTER), MAKE STARTS=WITH ONE WIRE IN EACH HAND INCLUDES=ALL THE MOTIONS NECESSARY TO PLACE END OF WIRE IN RIGHT HAND TO SPLICE POINT IN WIRE HELD BY LEFT HAND, TWIST END OF WIRE HELD BY RIGHT HAND AROUND OTHER WIRE TO MAKE ELECTRICALLY TIGHT, RELEASE WIRES ENDS=WITH RELEASE WIRE CONDITIONS=DOES NOT INCLUDE TAPING OR SOLDER- ING

DEFENSE WORK MEASUREMENT STANDARD TIME DATA ELEMENTS

DATA SOURCE	OCCUP- ATION	QUALITY	SOURCE CODE	DWMSTOP ELEMENT	TMU VALUE	OPERATION/ELEMENT DESCRIPTION
FFD	82X	MAA	KALEW39	SWHSI01	1076	SPLICE(COAXIAL CABLE), INSTALL TO SHIELDED WIRE STARTS-WITH REACH TO WIRE INCLUDES-ALL THE MOTIONS NECESSARY TO GET WIRE AND KNIFE, CUT AND STRIP INSULATION, GET AND POSITION BARREL TO WIRE END, PUSH SHIELDING BACK, POSITION INNER BARREL TO WIRE END, GET AND PLACE TAPED SHIELD OVER INNER BARREL WITH HAND, GET OUTER BARREL AND PLACE OVER INNER BARREL WITH HAND, GET PLIERS, POSITION ON BARRELS, ALIGN BARRELS, GET CRIMPERS, CRIMP BARRELS, ASIDE CRIMPERS AND WIRE ASSEMBLY ENDS-ASIDE CRIMPERS AND WIRE ASSEMBLY
FFD	82X	MAA	KALEA05	SWHSM01	2367	SPLICE(TWO WIRES), MAKE WITH STAKE-ON PLIERS STARTS-WITH REACH TO WIRE INCLUDES-ALL THE MOTIONS NECESSARY TO GET WIRE AND STRIPPERS, STRIP ONE END OF TWO WIRES, ASIDE STRIPPERS, GET STAKE-ON PLIERS, GET SPLICE, PLACE SPLICE ON WIRE END(ONE WIRE), PLACE PLIERS ON SPLICE AND CRIMP, PALM PLIERS, GET, MEASURE AND CUT SPAGHETTI AND INSTALL OVER SPLICE, GET SECOND WIRE, STRAIGHTEN AND PLACE IN SPLICE, CRIMP SPLICE, PULL WIRES TO CHECK SPLICE, ASIDE CRIMPERS, SLIDE SPAGHETTI OVER SPLICE, UNWIND ONE FOOT OF LACING CORD, TIE KNOT ON EACH SIDE OF SPLICE AND OVER SPAGHETTI, CUT CORD, ASIDE CUTTER ENDS-WITH ASIDE CUTTER CONDITIONS-NON-SHIELDED WIRE
FFD	82X	MAA	KALE005	SWHSR01	151	SPLICE, REMOVE STARTS-WITH REACH TO CUTTER INCLUDES-ALL THE MOTIONS NECESSARY TO GET CUTTER, GRASP WIRE WITH OTHER HAND, MAKE FIRST CUT, MOVE CUTTER TO SECOND POINT AND CUT WIRE, ASIDE CUTTER, RELEASE WIRE ENDS-WITH ASIDE CUTTER
NF	821	MAF	853	MBMCP01	1513	POLE, CLIMB TO LOWER CROSSARM, APPROXIMATELY 30 FEET STARTS-WITH REACH TO POLE INCLUDES-ALL MOTIONS NECESSARY TO CLIMB POLE TO LOWER CROSSARM USING CLIMBING HOOKS ENDS-WITH CLIMB COMPLETED CONDITIONS-NO TIME INCLUDED FOR FASTENING OR UNFASTENING SAFETY BELT
NF	821	MAF	852	MBMCP02	686	POLE, CLIMB FROM LOWER TO UPPER CROSSARM STARTS-WITH GET HOLD ON POLE INCLUDES-ALL MOTIONS NECESSARY TO UNHOOK SAFETY BELT, CLEAR BELT FROM POLE, CLIMB THREE STEPS USING CLIMBING HOOKS, STEP ON LOWER CROSSARM, HOOK SAFETY BELT AROUND POLE, CLIMB THREE ADDITIONAL STEPS, AND POSITION SAFETY BELT ENDS-WITH CLIMB COMPLETED
NF	821	MAF	850	MBMPC01	402	POSITION, CHANGE HORIZONTALLY ON POLE STARTS-WITH REACH FOR NEW HOLD ON POLE INCLUDES-ALL MOTIONS NECESSARY TO DISENGAGE CLIMBING HOOK, MOVE AROUND POLE, SINK HOOK IN POLE, GET NEW HOLD, AND REPOSITION BELT ENDS-WITH POSITION CHANGED CONDITIONS-APPLICABLE TO MOVING UP TO 180 DEGREES AROUND POLE

DEFENSE WORK MEASUREMENT STANDARD TIME DATA ELEMENTS

DATA SOURCE	OCCUP- ATION	QUALITY	SOURCE CODE	DWMSTOP ELEMENT	TMU VALUE	OPERATION/ELEMENT DESCRIPTION
NF	821	MAF	2407	SBMPC01	5843	POLE, CLIMB TO AND DESCEND FROM LOWER CROSSARM STARTS-WITH BEND TO POLE CLIMBERS INCLUDES-ALL MOTIONS NECESSARY TO PUT ON POLE CLIMBERS, ARISE PUT ON SAFETY BELT, CLIMB APPROXIMATELY 30 FEET UP POLE, HOOK SAFETY BELT AROUND POLE, REMOVE HANDLINE FROM SAFETY BELT AND HOOK ON CROSSARM; REMOVE HANDLINE, HOOK ON BELT, REMOVE BELT FROM POLE, DESCEND POLE, REMOVE SAFETY BELT, AND REMOVE POLE CLIMBERS ENDS-WITH ASIDE CLIMBERS
NF	821	MAF	716	MCLSC01	335	SHEATHING(LEAD CABLE), CLEAN BY SCRAPING STARTS-WITH SCRAPER IN HAND INCLUDES-ALL MOTIONS NECESSARY TO MOVE SCRAPER TO CABLE AND CLEAN THREE SQUARE INCHES ENDS-WITH SHEATHING CLEANED CONDITION-CLEANING IS PREPARATORY TO FLUX APPLICATION FOR SPLICING
NF	821	MAF	2411/12	MJPSP01	546	SLEEVES(RUBBER LINEMAN'S), PUT ON AND TAKE OFF STARTS-WITH REACH TO STORAGE POUCH INCLUDES-ALL MOTIONS NECESSARY TO UNFASTEN SNAPS ON POUCH, REMOVE SLEEVES FROM POUCH, PLACE SLEEVE STRAP OVER BACK OF NECK, AND PLACE ARMS IN SLEEVES; AND REACH TO FIRST SLEEVE, REMOVE, REACH TO SECOND SLEEVE, REMOVE, ROLL SLEEVES, PLACE SLEEVES IN POUCH, AND CLOSE SNAPS ON POUCH ENDS-WITH RELEASE OF POUCH
NF	821	MAF	769	SNFC101	1411	CONNECTOR(SOLDERLESS), INSTALL, SPLIT BOLT TYPE STARTS-WITH REACH TO CONNECTOR INCLUDES-ALL MOTIONS NECESSARY TO REMOVE NUT FROM CONNECTOR, PLACE SPLIT BOLT OVER FIRST WIRE, START NUT ON BOLT, GET SECOND WIRE AND SLIDE INTO CONNECTOR, GET WRENCH FROM BELT KIT, TURN NUT WITH WRENCH, GET SECOND WRENCH FROM BELT KIT, PLACE ON BOLT TO HOLD, TIGHTEN NUT, AND RETURN EACH WRENCH TO BELT KIT ENDS-WITH RELEASE OF SECOND WRENCH
NF	821	MAF	701	MOHA101	2477	ANCHOR(AND ROD ASSEMBLY), INSTALL IN HOLE AND EXPAND ANCHOR STARTS-WITH REACH TO ASSEMBLY ON TRUCK INCLUDES-ALL MOTIONS NECESSARY TO REMOVE ASSEMBLY FROM TRUCK, CARRY ASSEMBLY SIX PACES TO HOLE, PLACE ASSEMBLY IN HOLE AND POSITION, RETURN TO TRUCK, GET TAMPING BAR, RETURN TO HOLE, USE TAMPING BAR TO EXPAND ANCHOR, AND RETURN TAMPING BAR TO RACK ON TRUCK ENDS-WITH RELEASE OF BAR CONDITIONS-ASSEMBLY WEIGHS 44 POUNDS. TIME TO BACKFILL AND TAMP HOLE NOT INCLUDED. HOLE IS APPROXIMATELY SEVEN FEET DEEP.
NF	821	MAF	933	MOHBRO1	283	BELTING, REMOVE FROM LEAD SHEATHED CABLE STARTS-WITH REACH TO CUT END OF BELTING INCLUDES-ALL MOTIONS NECESSARY TO UNWRAP EIGHT REVOLUTIONS OF BELTING INSULATION FROM CABLE ENDS-WITH BELTING IN HAND CONDITION-TIME TO CUT BELTING NOT INCLUDED
NF	821	MAF	775	MOHC001	202	CUTOUT(FUSED), OPEN OR CLOSE ON POLE WITH DISCONNECT STICK STARTS-WITH REACH TO STICK ON HANDLINE INCLUDES-ALL MOTIONS NECESSARY TO GET LOOP ON HANDLINE, LIFT OVER END OF STICK, MOVE STICK TO EYE IN SWITCH, HOOK STICK IN EYE, PULL SWITCH TO OPEN OR PUSH TO CLOSE, MOVE HOOK OUT OF EYE, AND MOVE STICK BACK TO HANDLINE ENDS-WITH RELEASE OF STICK CONDITIONS-TIME FOR CLIMBING AND DESCENDING POLE NOT INCLUDED

DEFENSE WORK MEASUREMENT STANDARD TIME DATA ELEMENTS

DATA SOURCE	OCCUP- ATION	QUALITY	SOURCE CODE	DWMSTDP ELEMENT	TMU VALUE	OPERATION/ELEMENT DESCRIPTION
NF	821	MAF	2764	MOHER01	359	EQUIPMENT, RAISE OR LOWER ON POLE WITH HANDLINE STARTS-WITH REACH TO HANDLINE INCLUDES-ALL MOTIONS NECESSARY TO RAISE OR LOWER EQUIPMENT ATTACHED TO HANDLINE WITH HAND OVER HAND MOTIONS ENDS-WITH EQUIPMENT RAISED OR LOWERED CONDITIONS-NO TIME INCLUDED FOR ATTACHING OR REMOVING EQUIPMENT FROM HANDLINE OR FOR CLIMBING OR DESCENDING POLE. APPLICABLE TO TOOLS, TOOL BAG, MATERIAL, ETC. WITH ENW TO 15 POUNDS RAISED TO OR LOWERED FROM HEIGHT OF 30 FEET
NF	821	MAF	934	MOHFR01	95	FILLER, REMOVE AND CUT, LEAD SHEATHED CABLE STARTS-WITH REACH TO FILLER, KNIFE IN HAND INCLUDES-ALL MOTIONS NECESSARY TO PULL FILLER OUT APPROXIMATELY ONE FOOT AND CUT WITH KNIFE ENDS-WITH FILLER AND KNIFE IN HAND
NF	821	MAF	820	MOHHI01	257	HOOD (RUBBER INSULATOR), INSTALL ON ENERGIZED LINE STARTS-WITH REACH TO INSULATOR HOOD IN BAG INCLUDES-ALL MOTIONS NECESSARY TO GET INSULATOR FROM BAG, CHANGE POSITION ON POLE, SINK CLIMBING HOOK INTO POLE, MOVE HOOD TO INSULATOR, AND PLACE HOOD OVER INSULATOR ENDS-WITH RELEASE OF INSULATOR CONDITION-TIME FOR CLIMBING POLE NOT INCLUDED
NF	821	MAF	821	MOHHP01	324	HOSE (RUBBER), PLACE ON ENERGIZED LINE STARTS-WITH REACH TO HOSE IN BAG INCLUDES-ALL MOTIONS NECESSARY TO GET HOSE, CHANGE POSITION ON POLE, SINK CLIMBING HOOK INTO POLE, MOVE HOSE TO WIRE, AND PUSH HOSE DOWN WIRE TO PROVIDE PROTECTION DURING ENSUING WORK ENDS-WITH RELEASE OF HOSE CONDITION-TIME FOR CLIMBING POLE NOT INCLUDED. HOSE APPROXIMATELY FIVE FEET LONG.
NF	821	MAF	702	MTFAA01	759	ANCHOR, ASSEMBLE TO ROD STARTS-WITH REACH TO ANCHOR IN RACK ON TRUCK INCLUDES-ALL MOTIONS NECESSARY TO REMOVE ANCHOR FROM TRUCK, GET ROD, SCREW ANCHOR ONTO ROD, GET WIRE CUTTERS FROM BELT KIT, CUT FOUR TIE WIRES, REPLACE CUTTERS IN BELT ENDS-WITH RELEASE OF CUTTERS CONDITIONS-ANCHOR WEIGHS 28 POUNDS. 1"X10" ROD WEIGHS 16 POUNDS
NF	821	MAF	856	MTLP001	157	PIKE, DRIVE INTO POLE, APPROXIMATELY 20 FEET ABOVE GROUND STARTS-WITH PIKE IN HAND INCLUDES-ALL MOTIONS NECESSARY TO LIFT PIKE, PUSH INTO POLE, AND WEDGE PIKE AGAINST GROUND ENDS-WITH RELEASE OF PIKE CONDITION-PIKE WEIGHS APPROXIMATELY 20 POUNDS
NF	821	MAF	854	MTLPRO1	415	POLE, ROTATE WITH CANT HOOK STARTS-WITH REACH TO CANT HOOK INCLUDES-ALL MOTIONS NECESSARY TO GET HOOK, OBSERVE POLE TO ESTIMATE AMOUNT OF TURN REQUIRED, ROTATE POLE WITH HOOK, CHECK POSITION, ROTATE POLE, CHECK POSITION, STOOP, REMOVE CANT HOOK FROM POLE, AND ARISE ENDS-WITH ASIDE CANT HOOK CONDITIONS-RESISTANCE TO TURN IS APPROXIMATELY 40 POUNDS ENW.

DEFENSE WORK MEASUREMENT STANDARD TIME DATA ELEMENTS

DATA SOURCE	OCCUP- ATION	QUALITY	SOURCE CODE	DWMSTDP ELEMENT	TMU VALUE	OPERATION/ELEMENT DESCRIPTION
NF	821	MAF	817	STLS001	609	STEP(POLE),DRIVE INTO POLE WITH HAMMER STARTS-WITH REACH TO POLE STEP INCLUDES-ALL MOTICNS NECESSARY TO GET HAMMER, DRIVE STEP INTO POLE,ASIDE HAMMER,GET WRENCH, AND TURN STEP TO ALIGN ENDS-WITH ASIDE WRENCH
FFD	823	TAA	KALEA09	SWHJ101	7306	JACK/PLUG(INTERPHONE),INSTALL STARTS-WITH REACH TO GET TOOL INCLUDES-ALL THE MOTIONS NECESSARY TO GET SCREWDRIVER AND POSITION TO JACK SLOT,BREAK INNER PART OF JACK LOOSE,DISENGAGE INNER PART FROM SHELL,OPEN VISE,PLACE RECEPTACLE IN VISE AND TIGHTEN,GET AND PLUG IN SOLDERING IRON, ASIDE IRON TO HOLDER,GET EXTENSION CORD AND KNIFE,CUT AND REMOVE OUTER COVERING AT END OF CORD,ASIDE KNIFE,GET STRIPPERS AND STRIP FOUR WIRES,ASIDE STRIPPERS,GET SOLDERING IRON AND TIN EACH WIRE END,ASIDE IRON AND CORD,GET PLIERS AND GRASP WIRE,MOVE WIRE TO AND PLACE IRON,SOLDER EACH WIRE IN RECEPTACLE,ASIDE IRON AND REACH(SIMO)TO VISE HANDLE AND CABLE,OPEN VISE AND REMOVE CABLE,GET STRING,LOOP STRING ON CABLE AND PULL TIGHT,PLACE KNOT ON HOOK, MOVE SHELL TO RECEPTACLE AND FIT TOGETHER, GET SCREWDRIVER AND TIGHTEN SHELL TO RECEPT- ACLE,ASIDE SCREWDRIVER,JACK/PLUG AND CABLE ENDS WITH ASIDE JACK/CABLE CONDITIONS-FOUR-WIRE EXTENSION CORD
FFD	823	MAA	KALED09	SWMJR01	2376	JACK/PLUG(INTERPHONE),REMOVE STARTS-WITH REACH TO GET JACK AND PLIERS(SIMO) INCLUDES-ALL THE MOTIONS NECESSARY TO GET AND MOVE PLIERS AND JACK TO WORK AREA,GRASP JACK WITH PLIERS,GET SCREWDRIVER,LOOSEN SHELL FROM INNER PART,ASIDE SCREWDRIVER,REMOVE INNER PART(RECEPTACLE)FROM SHELL,ASIDE SHELL,PLIERS AND RECEPTACLE,OPEN VISE,PLACE RECEPTACLE IN VISE AND TIGHTEN,GET SOLDERING IRON,PLACE IN HOLDER,PLUG IN,GET PLIERS,GRASP WIRE WITH PLIERS,GET SOLDERING IRON,UNSOLDER FOUR WIRES, ASIDE IRON,STRAIGHTEN WIRES,DISENGAGE WIRES, ASIDE PLIERS AFTER FOURTH WIRE IS DISENGAGED, UNPLUG SOLDERING IRON,LOOSEN VISE,REMOVE AND ASIDE RECEPTACLE ENDS-WITH ASIDE RECEPTACLE CONDITIONS-FOUR-WIRE EXTENSION CORD
AF	824	MAA	MDE-3Y	MOAL101	103	LAMP(FLUCRESCENT),INSTALL IN LAMP HOLDER STARTS-WITH LAMP IN HANDS INCLUDES-ALL THE MOTIONS NECESSARY TO MOVE LAMP AND POSITION FIRST END TO LAMP HOLDER, POSITION SECOND END TO HOLDER,MOVE EACH END TO SEAT,TURN LAMP TO LOCK,RELEASE LAMP ENDS-WITH RELEASE LAMP IN HOLDER
AF	824	MAA	MDE-4M2	MDAP101	72	PANEL(ELECTRICAL METER),INSTALL STARTS-WITH PANEL IN HAND INCLUDES-ALL THE MOTIONS NECESSARY TO MOVE METER PANEL TO CHASSIS,POSITION PANEL AND ALIGN SCREW HOLES,CHECK ALIGNMENT ENDS-WITH CHECK ALIGNMENT CONDITIONS-4X8 INCH PANEL
AF	824	MAA	MDE-4M2	MDAPR01	42	PANEL(ELECTRICAL METER),REMOVE STARTS-WITH LEFT HAND HOLDING METER PANEL AT CHASSIS INCLUDES-ALL THE MOTIONS NECESSARY TO REACH TO PANEL WITH RIGHT HAND,GRASP AND REMOVE PANEL, RELEASE RIGHT HAND,TURN PANEL WITH LEFT HAND TO EXPOSE WIRING ENDS-WITH WIRING EXPOSED,PANEL IN HAND CONDITIONS-4X8 INCH PANEL

DEFENSE WORK MEASUREMENT STANDARD TIME DATA ELEMENTS

DATA SOURCE	OCCUP- ATION	QUALITY	SOURCE CODE	DWNSTOP ELEMENT	TMU VALUE	OPERATION/ELEMENT DESCRIPTION
AF	824	MAA	MOE-3R1	SDALI01	524	LEADS(LAMPSOCKET), INSERT THROUGH GROMMET STARTS-WITH REACH TO GET LAMP ASSEMBLY INCLUDES-ALL THE MOTIONS NECESSARY TO PICK UP LAMP ASSEMBLY AND TURN WITH RIGHT HAND, REACH TO FIRST WIRE LEAD WITH LEFT HAND, MOVE WIRE TO GROMMET AND INSERT LEAD THROUGH GROMMET, RELEASE WIRE, TURN LAMP ASSEMBLY 90 DEGREES AND REACH TO WIRE END THROUGH GROMMET, GRASP END AND PULL WIRE THROUGH GROMMET WITH CARE, RELEASE WIRE, TURN LAMP 90 DEGREES, REACH TO END OF SECOND WIRE, MOVE WIRE TO GROMMET AND INSERT IN GROMMET, RELEASE WIRE, TURN LAMP 90 DEGREES, GRASP END OF SECOND WIRE AND PULL THROUGH GROMMET WITH CARE, INSPECT GROMMET SEATING, ASIDE LAMP ASSEMBLY ENDS-WITH LAMP ASIDE CONDITIONS-INCANDESCENT LAMP-RUBBER GROMMET
NF	824	MAF	712	MOHCI01	132	CABLE, INSERT END IN BOX CONNECTOR STARTS-WITH REACH TO END OF CABLE INCLUDES-ALL MOTIONS NECESSARY TO POSITION END OF CABLE TO CONNECTOR, GET END OF CABLE WITH OTHER HAND, AND PULL CABLE INTO BOX ENDS-WITH RELEASE OF CABLE CONDITION-APPLICABLE TO BX, ROMEK, OR SIMILAR
AF	824	MAA	MOE-40	MWHNI01	50	WIRE, INSERT THROUGH CLIP IN RACEWAY STARTS-WITH WIRE IN HAND INCLUDES-ALL THE MOTIONS NECESSARY TO MOVE WIRE THROUGH CLIP WITH RIGHT HAND, GRASP END WITH LEFT HAND AND PULL WIRE THROUGH RACEWAY, GUIDE WIRE WITH RIGHT HAND ENDS-WITH WIRE THROUGH RACEWAY(10 INCHES)AND HELD BY BOTH HANDS
FFD	825	MAA	KALEA17	SCPCI01	1781	CLAMP, INSTALL ON WIRE BUNDLE AND SECURE TO BULKHEAD STARTS-WITH REACH TO GET CLAMP INCLUDES-ALL THE MOTIONS NECESSARY TO GET CLAMP, MOVE TO PLIERS AND GRASP, TWIST PLIERS TO SHAPE CLAMP, ASIDE PLIERS, OPEN CLAMP, GET WIRE BUNDLE, PLACE CLAMP ON BUNDLE, CLOSE CLAMP, GET PLIERS AND FORM CLAMP ON BUNDLE, ASIDE PLIERS AND GET SCREWDRIER AND PLACE IN CLAMP HOLE, PLACE CLAMP AND WIRE BUNDLE TO HOLE, PUT SCREW IN HOLE, PUT ON NUT, GET WRENCH AND TIGHTEN NUT, ASIDE TOOLS, CHECK CLAMP FOR SECURITY ENDS-WITH CLAMP CHECKED, TOOLS ASIDE CONDITIONS-SECURE BUNDLE TO BULKHEAD AND SIMILAR
FFD	825	MAA	KALED17	SCPCRO1	1173	CLAMP(PCR), REMOVE FROM WIRE BUNDLE STARTS-WITH REACH TO SCREWDRIER INCLUDES-ALL THE MOTIONS NECESSARY TO GET SCREWDRIER, PALM, GET WRENCH, PLACE SCREW DRIVER IN SCREW SLOT AND WRENCH ON NUT, LOOSEN SCREW, REMOVE NUT, ASIDE SCREWDRIER AND WRENCH, GET PLIERS, SQUEEZE SCREW FROM CLAMP, PALM PLIERS, REMOVE SCREW FROM CLAMP, PALM SCREW, GRASP AND SPREAD CLAMP, REMOVE CLAMP FROM WIRE BUNDLE, ASIDE CLAMP, SCREW AND PLIERS(SIMO) ENDS-WITH CLAMP, SCREW AND PLIERS ASIDE

DEFENSE WORK MEASUREMENT STANDARD TIME DATA ELEMENTS

DATA SOURCE	OCCUP- ATION	QUALITY	SOURCE CODE	OWNSTDP ELEMENT	TMU VALUE	OPERATION/ELEMENT DESCRIPTION
FFD	825	MAA	KALED18	SCPCR02	1026	CLAMP, REMOVE FROM BULKHEAD STARTS=WITH REACH TO TOOLS INCLUDES=ALL THE MOTIONS NECESSARY TO GET SCREWDRIIVER AND WRENCH, LOOSEN SCREW AND NUT HOLDING CLAMP TO BULKHEAD, ASIDE TOOLS, REMOVE AND ASIDE NUT, PULL CLAMP AND CABLE AWAY FROM BULKHEAD, REMOVE SCREW FROM CLAMP HOLE, PUT NUT BACK ON SCREW, RUN DOWN WITH FINGERS ENDS=WITH NUT ON SCREW CONDITIONS=APPLIES ONLY TO CLAMPS REMOVED FOR ACCESS AND LEFT ON WIRE BUNDLE
FFD	825	MAA	KALEA18	SCPWC01	1274	WIRE BUNDLE, CLAMP TO BULKHEAD STARTS=WITH REACH TO CLAMP AND NUT(SIMO) INCLUDES=ALL THE MOTIONS NECESSARY TO REMOVE SCREW AND NUT FROM CLAMP, POSITION CLAMP ALREADY ON BUNDLE TO MOUNTING HOLE, INSERT SCREW AND PUT NUT ON SCREW, GET WRENCH AND SCREWDRIIVER, RUN DOWN AND TIGHTEN NUT, PALM TOOLS, CHECK CLAMP FOR SECURITY, ASIDE TOOLS. ENDS=WITH ASIDE TOOLS CONDITIONS=APPLIES ONLY TO CLAMPS REMOVED FOR ACCESS AND LEFT ON WIRE BUNDLE
FFD	825	MAA	KALEW33	SWHWR01	1596	WIRE/WIRE BUNDLE, ROUTE IN AIRCRAFT STARTS=WITH REACH TO WIRE/WIRE BUNDLE INCLUDES=ALL THE MOTIONS NECESSARY TO GET WIRE OR WIRE BUNDLE, MOVE TO WORK AREA AND PUSH END INTO POSITION, BEND WIRE TO POSITION, INSERT WIRE/WIRE BUNDLE THROUGH OBSTRUCTION, GRASP END OF WIRE/WIRE BUNDLE, FEEL FOR END, GRASP AND PULL THROUGH LOOP, BEND WIRE, PULL WIRE/WIRE BUNDLE THROUGH OBSTRUCTION, GET AND UNWIRE ONE FOOT OF LACING CORD, TIE WIRE/WIRE BUNDLE IN TWO SPOTS, CUT CORD, ASIDE CUTTER ENDS=WITH KNOT TIED(TWO), CUTTER ASIDE CONDITIONS=PER FOOT ROUTED=USE WHEN ROUTING A BUNDLE OR WHEN ROUTING A WIRE ALONG EXISTING BUNDLE
FFD	825	MAA	KALEW43	SWHWT01	1296	WIRE BUNDLE, TIE TO TOMBSTONE STARTS=WITH REACH TO LACING CORD INCLUDES=ALL THE MOTIONS NECESSARY TO GET LACING CORD, UNWIND ONE FOOT, SECURE WIRE BUNDLE TO TOMBSTONE AND TIE IN TWO PLACES, CUT LACING CORD AND ASIDE CUTTER ENDS=WITH ASIDE CUTTER, TIE FINAL KNOT
NF	829	MAF	809	MOHFIXX	VARIABLE	FUSE(ELECTRICAL), INSTALL STARTS=WITH FUSE IN HAND INCLUDES=ALL MOTIONS NECESSARY TO INSTALL FUSE IN HOLDER ENDS=WITH RELEASE OF FUSE 70 CASE 01 CARTRIDGE TYPE FUSE, FERRULE CONTACT, 3-60 AMPERE 115 02 CARTRIDGE TYPE FUSE, KNIFE BLADE CONTACT, 61-600 AMPERE 180 03 PLUG TYPE FUSE, 15-30 AMPERE
NF	829	MAF	3266	MOHSR01	144	STARTER(FLUORESCENT), REPLACE IN FIXTURE STARTS=WITH REACH TO STARTER INCLUDES=ALL MOTIONS NECESSARY TO REMOVE STARTER, TRANSFER STARTER TO OTHER HAND, GET NEW STARTER HELD IN OTHER HAND, AND INSTALL STARTER ENDS=WITH RELEASE OF STARTER CONDITIONS=NO TIME INCLUDED FOR TESTING STARTER. STARTER IN UNRESTRICTED LOCATION.

DEFENSE WORK MEASUREMENT STANDARD TIME DATA ELEMENTS

DATA SOURCE	OCCUP- ATION	QUALITY	SOURCE CODE	OWMSTDP ELEMENT	TMU VALUE	OPERATION/ELEMENT DESCRIPTION
NF	829	MAF	705/6/7	STLBRXX	VARIABLE	<p>BULB, REPLACE WITH BULB CHANGER STARTS-WITH CHANGER IN HAND INCLUDES-ALL MOTIONS NECESSARY TO LIFT CHANGER TO BULB, POSITION ON BULB, REMOVE BULB FROM SOCKET, LOWER CHANGER, REMOVE BULB FROM CHANGER, STOOP, GET NEW BULB FROM CARTON, PLACE OLD BULB IN CARTON, ARISE, PLACE BULB IN CHANGER, LIFT BULB AND CHANGER TO SOCKET, SCREW BULB IN SOCKET, AND LOWER CHANGER FROM BULB ENDS-WITH BULB CHANGER IN HAND CONDITIONS-APPLICABLE TO CHANGING OVERHEAD INCANDESCENT BULBS TO 750 WATTS 1340 CASE 01 CHANGE BULB WITH 9-FOOT CHANGER 1587 02 CHANGE BULB WITH 18-FOOT CHANGER 1826 03 CHANGE BULB WITH 27-FOOT CHANGER</p>
NF	844	MAF	1303	MACMO01	593	<p>MIXTURE (DRY AGGREGATE), DUMP INTO MIXER FROM HOPPER STARTS-WITH REACH TO DUMP HANDLE INCLUDES-ALL MOTIONS NECESSARY TO MOVE DUMP HANDLE TO OPEN HOPPER, GET VIBRATOR HANDLE, VIBRATE HOPPER BY HAND TO EMPTY CONTENTS, AND CLOSE HOPPER ENDS-WITH RELEASE OF HANDLE CONDITIONS-APPLICABLE TO DUMPING 3 1/2 CUBIC FEET OF MIXED DRY AGGREGATE</p>
NF	844	MAF	1362	SOHCA01	462	<p>CHUTE (EXTENSION), ATTACH TO TRANSIT MIXER STARTS-WITH REACH TO EXTENSION INCLUDES-ALL MOTIONS NECESSARY TO REMOVE EXTENSION FROM STORAGE ON TRUCK, TURN, WALK 10 PACES TO REAR OF TRUCK, AND ATTACH EXTENSION CHUTE TO MIXER ENDS-WITH RELEASE OF EXTENSION CONDITIONS-EXTENSION WEIGHS APPROXIMATELY 40 POUNDS</p>
NF	844	MAF	1368/70	MTLCC01	3699	<p>CONCRETE, CHIP WITH CHISEL AND HAMMER, SEVEN CUBIC INCHES STARTS-WITH CHISEL AND HAMMER IN HAND INCLUDES-ALL MOTIONS NECESSARY TO STRIKE CHISEL WITH HAMMER TO REMOVE SEVEN CUBIC INCHES OF CONCRETE AND USE CHISEL TO PUSH AWAY DEBRIS ENDS-WITH TOOLS IN HAND</p>
NF	844	MAF	1415	MTPHE01	273	<p>HANDLES (GUIDE), EXTEND OR RETRACT, CONCRETE SAW STARTS-WITH REACH TO HANDLE LOCK KNOB INCLUDES-ALL MOTIONS NECESSARY TO LOOSEN LOCK KNOB, PULL HANDLE OUT, TIGHTEN LOCK KNOB, SIDE STEP TO OTHER HANDLE, LOOSEN LOCK KNOB, PULL HANDLE OUT, AND TIGHTEN LOCK KNOB ENDS-WITH RELEASE OF KNOB</p>
NF	844	MAF	1412	MTPHP01	272	<p>HAMMER (PNEUMATIC), POSITION FOR DRILLING AND REMOVE AFTER DRILLING STARTS-WITH BEND TO HAMMER INCLUDES-ALL MOTIONS NECESSARY TO PICK UP HAMMER AND MOVE TO SPOT FOR DRILLING; AND TO REMOVE HAMMER AND ASIDE AT FLOOR LEVEL ENDS-WITH ARISE FROM BEND CONDITIONS-HAMMER WEIGHS APPROXIMATELY 90 POUNDS</p>
NF	844	MAF	1497	MTPSA01	177	<p>SPEED, ADJUST ON SELF-PROPELLING UNIT OF CONCRETE SAW STARTS-WITH RELEASE OF HANDLES OF SAW INCLUDES-ALL MOTIONS NECESSARY TO TAKE ONE STEP BACKWARD, STOOP, TURN KNOB THREE REVOLUTIONS, ARISE, AND WALK ONE PACE FORWARD ENDS-WITH GRASP HANDLES</p>

DEFENSE WORK MEASUREMENT STANDARD TIME DATA ELEMENTS

DATA SOURCE	OCCUPATION	QUALITY	SOURCE CODE	DWMSTDP ELEMENT	TMU VALUE	OPERATION/ELEMENT DESCRIPTION
NF	844	MAF	1498/99	MTPUE01	342	UNIT(SELF-PROPELLING), ENGAGE AND DISENGAGE, CONCRETE SAW STARTS-WITH REACH TO HANDLES INCLUDES-ALL MOTIONS NECESSARY TO HOLD HANDLES AND ACTUATE LEVER WITH FOOT MOTION TO ENGAGE UNIT;AND TO HOLD HANDLES AND ACTUATE LEVER WITH FOOT MOTION TO DISENGAGE UNIT ENDS-WITH HAND ON HANDLES
NAA	845	MAA	JPAADXX	MPAPSXX	VARIABLE	PAIN, SPRAY ON AIRCRAFT SURFACE, PER TEN SQUARE FEET STARTS-WITH SPRAY GUN IN HAND INCLUDES-ALL MOTIONS NECESSARY TO SPRAY TEN SQUARE FEET(FOUR PASSES PER SQUARE FOOT), MOVE HOSE, AND MOVE TO ADJACENT AREA FOR PAINTING ENDS-WITH OPERATOR READY TO PAINT ADJACENT AREA 998 CASE 01 SPRAY TEN SQUARE FEET WITH EPOXY PAINT OR ACRYLIC LACQUER, SPRAY WITH FOUR INCH FAN 593 02 SPRAY TEN SQUARE FEET WITH EPOXY OR ACRYLIC PRIMER, SPRAY WITH SIX-INCH FAN
NAA	845	MUA	JPAASRA	SPAAT01	26690	ARROW(RESUE), INSTALL ON AIRCRAFT STARTS-WITH REACH TO GET MEASURING DEVICE INCLUDES-ALL THE MOTIONS NECESSARY TO MARK POSITION TO PLACE TEMPLATE, TEMPORARY TAPE TEMPLATE TO AIRCRAFT, MASK OUTLINE TWO TIMES, PAINT YELLOW AND RESUE BLACK, TWO COATS EACH, REMOVE MASK, USE WORKSTAND ONE TIME TO PAINT AND ONE TIME TO MASK ENDS-WITH DESCENT FROM WORKSTAND, ASIDE PAINT AND TEMPLATES CONDITIONS-ARROW TO 24 INCHES. FOUR STEP ASCENT/DESCENT OF WORKSTAND.
NAA	845	MUA	JPAASNA	SPAII01	80610	INSIGNIA(NATIONAL-STAR), INSTALL ON AIRCRAFT STARTS-WITH REACH TO GET MEASURING DEVICE INCLUDES-ALL THE MOTIONS NECESSARY TO MARK LOCATION OF STAR, GET STAR AND POSITION ON AIRCRAFT, APPLY TEMPORARY TAPE TO HOLD TEMPLATE ONCE FOR EACH COLOR, MASK ONCE FOR EACH COLOR AND REMOVE, PAINT THREE COLORS, TWO COATS EACH, WAIT ONE MINUTE BETWEEN COATS, ATTACH AND REMOVE BARRIER PAPER, USE WORK STAND ONCE PER COLOR, ONCE PER MASK AND ONCE PER UNMASK ENDS-WITH DESCENT FROM WORKSTAND, ASIDE PAINT AND TEMPLATE CONDITIONS-PAINT EIGHT SQUARE FEET WITH SPRAY GUN, 30-40 INCH INSIGNIA. FOUR STEP ASCENT/DESCENT OF WORKSTAND.
NF	853	MAF	2278	SOHWRO1	200	WRAPPING(PAPER), REMOVE FROM 100-POUND BUNDLE OF ASPHALT STARTS-WITH GET BUNDLE OF ASPHALT INCLUDES-ALL MOTIONS NECESSARY TO PLACE BUNDLE OF ASPHALT ON SIDE, GET AXE, CUT PAPER WRAPPING ON ASPHALT, ASIDE AXE, AND TEAR PAPER TO EXPOSE ASPHALT ENDS-WITH RELEASE OF PAPER
NF	853	MAF	997	MTLMS01	776	MIX(HOT BITUMINOUS), SPREAD WITH RAKE, PER SQUARE YARD STARTS-WITH RAKE IN HAND INCLUDES-ALL MOTIONS NECESSARY TO MOVE RAKE BACK AND FORTH THROUGH MIX TO SPREAD ENDS-WITH RAKE IN HAND

DEFENSE WORK MEASUREMENT STANDARD TIME DATA ELEMENTS

DATA SOURCE	OCCUP- ATION	QUALITY	SOURCE CODE	DWMSTOP ELEMENT	TMU VALUE	OPERATION/ELEMENT DESCRIPTION
NF	853	MAF	2279	STLAB01	350	ASPHALT,BREAK INTO PIECES WITH AXE,100-POUND BUNDLE STARTS-WITH REACH TO AXE INCLUDES-ALL MOTIONS NECESSARY TO USE AXE TO BREAK ASPHALT INTO PIECES FOR FEEDING INTO ASPHALT KETTLE ENDS-WITH ASIDE AXE
NF	86X	MAF	2081/82	MACSLO1	992	SCAFFOLD(PORTABLE),LOCK AND UNLOCK WHEELS STARTS-WITH TURN TO WHEEL INCLUDES-ALL MOTICNS NECESSARY TO WALK TWO PACES,TURN TO WHEEL,USE FOOT TO ACTUATE LEVER TO LOCK WHEEL;TURN,WALK TWO PACES,STOOP,GET LEVER,PULL TO RELEASE WHEEL,AND ARISE,NOTE- THIS MOTION SEQUENCE IS REPEATED FOR EACH OF FOUR WHEELS. ENDS-WITH WHEELS UNLOCKED CONDITIONS-NO TIME INCLUDED FOR MOVING SCAFFOLD
NF	86X	MAF	1397	MITFM01	922	FRAME(DOOR),MEASURE AND CENTER IN OPENING STARTS-WITH RULE IN HAND INCLUDES-ALL MOTIONS NECESSARY TO MEASURE ONE SIDE OF DOORWAY,TURN TO OTHER SIDE OF DOORWAY, MEASURE,BEND,MEASURE BOTTOM OF DOORWAY,ARISE, TURN TO OTHER SIDE OF DOORWAY,GET HAMMER,TAP FRAME SIX TIMES TO CENTER,BEND,MEASURE DOORWAY,TAP FRAME SIX TIMES TO CENTER,MEASURE, ARISE,MEASURE TOP OF DOORWAY AND ASIDE HAMMER AND RULE ENDS-WITH RELEASE OF TOOLS CONDITIONS-DOES NOT INCLUDE TIME FOR INSTALLING WEDGES TO HOLD DOOR FRAME IN PLACE. APPLICABLE TO INSTALLATION OF STEEL DOOR FRAME IN BRICK OR MASONRY WALL.
NF	86X	MAF	1396	SITFC01	1041	FRAME(DOOR),CHECK FOR VERTICAL ALIGNMENT WITH LEVEL STARTS-WITH REACH TO LEVEL INCLUDES-ALL MOTIONS NECESSARY TO GET LEVEL, POSITION LEVEL TO FRONT OF FRAME,CHECK READING,POSITION LEVEL TO SIDE OF FRAME,CHECK READING,POSITION LEVEL TO REAR OF FRAME,CHECK READING,TURN TO OTHER SIDE OF DOORWAY,POSITION LEVEL TO REAR OF FRAME,CHECK READING,POSITION LEVEL TO SIDE OF FRAME,CHECK READING,POSITION LEVEL TO FRONT OF FRAME,CHECK READING,AND ASIDE LEVEL ENDS-WITH RELEASE OF LEVEL CONDITION-NO TIME INCLUDED FOR CORRECTING ALIGNMENT OF DOOR FRAME.APPLICABLE TO INSTALLATION OF STEEL DOOR FRAME IN BRICK OR MASONRY WALL
NF	86X	MAF	23	MJPB001	112	BLOCK(SANDING),OBTAIN AND ATTACH SANDPAPER STARTS-WITH REACH TO BLOCK INCLUDES-ALL MOTICNS NECESSARY TO GET BLOCK, GET SANDPAPER,AND WRAP PAPER AROUND BLOCK ENDS-WITH BLOCK IN HAND CONDITION-NO TIME INCLUDED FOR TEARING SANDPAPER
NF	86X	MAF	2578	SJPBC01	380	BELT,CHANGE ON HAND HELD SANDING MACHINE STARTS-WITH REACH TO SANDING MACHINE INCLUDES-ALL MOTICNS NECESSARY TO TURN MACHINE ON SIDE,RELEASE BELT,REMOVE BELT FROM ROLLERS, ASIDE BELT,GET NEW BELT,POSITION BELT OVER ROLLERS,MOVE HANDLE TO TIGHTEN BELT,TURN MACHINE UPRIGHT,AND ADJUST BELT TENSION ENDS-WITH RELEASE OF MACHINE

DEFENSE WORK MEASUREMENT STANDARD TIME DATA ELEMENTS

DATA SOURCE	OCCUP- ATION	QUALITY	SOURCE CODE	DWMSTOP ELEMENT	TMU VALUE	OPERATION/ELEMENT DESCRIPTION
NF	86X	MAF	34	MMHOR01	886	OBJECT, RAISE AND LOWER WITH MANUALLY OPERATED HOIST, AVERAGE 28-FOOT HEIGHT STARTS-WITH REACH TO HOIST ROPE INCLUDES-ALL MOTIONS NECESSARY TO RAISE OBJECT AN AVERAGE OF 28 FEET (OPERATOR STEPS BACK SEVEN PACES WHILE RAISING), AND TO STEP FORWARD SEVEN PACES TO LOWER OBJECT ENDS-WITH RELEASE OF HOIST ROPE CONDITION-RESISTANCE TO RAISING HOIST IS 45 POUNDS ENW. TIME TO ATTACH OR REMOVE OBJECT NOT INCLUDED.
NF	86X	MAF	1301	MNFAA01	367	ADHESIVE, APPLY TO FLOOR WITH SERRATED TROWEL, PER SQUARE FOOT STARTS-WITH TROWEL IN HAND INCLUDES-ALL MOTIONS NECESSARY TO MOVE TROWEL TO CONTAINER OF ADHESIVE, OBTAIN ADHESIVE ON TROWEL, AND SPREAD ADHESIVE ON FLOOR ENDS-WITH TROWEL IN HAND
NF	86X	MAF	1325	MNFB101	876	BRACE (BOTTOM), INSTALL IN METAL DOOR FRAME STARTS-WITH BRACE, RIVETS, AND EXPANDER IN HAND INCLUDES-ALL MOTIONS NECESSARY TO KNEEL ON BOTH KNEES, ASIDE BRACE, ASIDE RIVET EXPANDER, PLACE FOUR RIVETS THROUGH HOLES IN FRAME, GET BRACE, PLACE OVER RIVETS, GET EXPANDER FOUR TIMES, EXPAND RIVETS, AND ASIDE EXPANDER ENDS-WITH ARISE CONDITION-TWO RIVETS INSTALLED IN EACH END OF BRACE
NF	86X	MAF	1326	SNFB101	380	BRACE (CENTER), INSTALL IN METAL DOOR FRAME STARTS-WITH GET WEDGE INCLUDES-ALL MOTIONS NECESSARY TO GET BRACE, TURN TO DOOR FRAME, POSITION BRACE, POSITION WEDGE TO HOLD BRACE, GET HAMMER, AND TAP WEDGE TO TIGHTEN BRACE ENDS-WITH ASIDE HAMMER
NF	86X	MAF	1398	SNFW101	251	WEDGE, INSTALL TO HOLD DOOR FRAME IN PLACE STARTS-WITH GET TWO WEDGES (ONE IN EACH HAND) INCLUDES-ALL MOTIONS NECESSARY TO MOVE WEDGES TO FRAME, INSERT BY HAND, GET HAMMER, TAP EACH WEDGE TWO TIMES, AND ASIDE HAMMER ENDS-WITH RELEASE OF HAMMER CONDITIONS-DOES NOT INCLUDE THE INSTALLATION OF WEDGES TO LEVEL FRAME
NF	86X	MAF	1399	SNFW102	458	WEDGE, INSTALL TO RAISE AND LEVEL DOOR FRAME STARTS-WITH GET WEDGE INCLUDES-ALL MOTIONS NECESSARY TO KNEEL ON BOTH KNEES, INSERT WEDGE BY HAND, GET HAMMER, STRIKE WEDGE FOUR TIMES, GET SECOND WEDGE, INSERT BY HAND, STRIKE WEDGE FOUR BLOWS WITH HAMMER, AND ASIDE HAMMER ENDS-WITH ARISE
NF	86X	MAF	2946	MOHCD01	256	CUTTER (GASKET), OBTAIN FROM CASE AND PUT AWAY STARTS-WITH GET CASE INCLUDES-ALL MOTIONS NECESSARY TO OPEN CASE, REMOVE CUTTER FROM CASE, GET CUTTER, REPLACE IN CASE, AND CLOSE CASE ENDS-WITH ASIDE CASE
NF	86X	MAF	84	MOHFU01	352	FELT (ROOFING), UNROLL 15 FEET STARTS-WITH KNEEL TO ROLL OF FELT INCLUDES-ALL MOTIONS NECESSARY TO ALIGN FELT FOR UNROLLING, START UNROLLING, ARISE, AND WALK AND KICK ROLL OF FELT TO UNROLL A 15-FOOT LENGTH ENDS-WITH FELT UNROLLED CONDITIONS-ROLL OF FELT PREVIOUSLY OBTAINED AND PLACED IN APPROXIMATE POSITION

DEFENSE WORK MEASUREMENT STANDARD TIME DATA ELEMENTS

DATA SOURCE	OCCUP- ATION	QUALITY	SOURCE CODE	DWMSTOP ELEMENT	TMU VALUE	OPERATION/ELEMENT DESCRIPTION
NF	86X	MAF	3311	MOHGR01	245	GASKET, REMOVE FROM CUTTING BOARD AND ASIDE SCRAP STARTS=WITH GET HAMMER INCLUDES=ALL MOTIONS NECESSARY TO REMOVE TWO PINS WITH CLAW HAMMER, ASIDE HAMMER, AND ASIDE GASKET ENDS=WITH ASIDE SCRAP MATERIAL
NF	86X	MAF	1404	SOHAF01	296	FRAME(AND ANCHORS), ADJUST IN OPENING, METAL DOOR FRAME STARTS=WITH REACH TO DOOR FRAME INCLUDES=ALL MOTIONS NECESSARY TO MOVE FRAME SLIGHTLY TO ADJUST, SIDESTEP AND STOOP TO LOWER ANCHOR, POSITION AND CHECK VISUALLY, ARISE, POSITION AND CHECK MIDDLE ANCHOR, AND POSITION AND CHECK TOP ANCHOR ENDS=WITH FRAME AND ANCHORS ADJUSTED
NF	86X	MAF	1400	SOHFA01	1613	FRAME(METAL DOOR), ASSEMBLE STARTS=WITH KNEEL ON BOTH KNEES, HAMMER IN HAND INCLUDES=ALL MOTIONS NECESSARY TO ASIDE HAMMER, GET ONE SIDE FRAME AND MOVE NEAR TOP, GET TOP AND PREPOSITION TO SIDE, GET SIDE FRAME AND POSITION TO INSERT LUGS IN HOLES, GET HAMMER, STRIKE TOP TO SEAT, BEND LUGS OVER WITH HAMMER, ASIDE HAMMER, BEND OVER FRAME, INSPECT WORK, AND ARISE FROM BEND. NOTE=THIS MOTION SEQUENCE IS REPEATED FOR SECOND SIDE FRAME. ENDS=WITH ARISE FROM KNEELING POSITION CONDITIONS=DOES NOT INCLUDE TIME TO GET AND PLACE COMPONENT PARTS
NF	86X	MAF	3435	MTLBA01	411	BLADE(GASKET CUTTER), ADJUST WITH CLAMPING SCREWS STARTS=WITH CUTTER IN HAND INCLUDES=ALL MOTIONS NECESSARY TO GET SCREWDRIVER, LOOSEN TWO CLAMPING SCREWS, ADJUST BLADE HEIGHT, TIGHTEN SCREWS, AND ASIDE CUTTER ENDS=WITH ASIDE SCREWDRIVER
NF	86X	MAF	1688	MTLBU01	538	BOB(PLUMB), USE STARTS=WITH PLUMB BOB IN HAND INCLUDES=ALL MOTIONS NECESSARY TO MOVE PLUMB BOB TO ATTACHING POINT, WRAP CORD TO ATTACH, LOWER PLUMB BOB, POSITION CORD ON MARK, ADJUST CORD LENGTH, STOOP TO PLUMB BOB, STOP PLUMB BOB FROM SWINGING, ARISE, AND REMOVE PLUMB BOB ENDS=WITH PLUMB BOB IN HAND
NF	86X	MAF	3436	MTLCA01	176	CUTTER(GASKET), ADJUST TO SIZE FOR RING GASKET STARTS=WITH REACH TO CUTTER INCLUDES=ALL MOTIONS NECESSARY TO GET CUTTER, LOOSEN THUMB SCREW, POSITION SIZE INDICATOR, AND TIGHTEN THUMB SCREW ENDS=WITH CUTTER IN HAND
NF	86X	MAF	3737	MTLCP01	173	CUTTER(GASKET), POSITION TO BOARD AND REMOVE STARTS=WITH REACH FOR GASKET CUTTER INCLUDES=ALL MOTIONS NECESSARY TO MOVE PIVOT PIN TO CENTER MARK ON GASKET MATERIAL, PRESS PIN INTO MATERIAL, AND POSITION IN CENTER HOLE; AND DISENGAGE PIVOT PIN AND MOVE CUTTER ASIDE ENDS=WITH RELEASE OF CUTTER
NF	86X	MAF	113	MTLGL01	125	GUN(CAULKING), LOAD WITH CARTRIDGE STARTS=WITH GET CAULKING GUN INCLUDES=ALL MOTIONS NECESSARY TO TURN AND MOVE HANDLE BACK, GET CARTRIDGE, POSITION IN GUN, TURN HANDLE, AND ACTUATE TRIGGER TO BRING PLUNGER TO END OF CARTRIDGE ENDS=WITH RELEASE OF TRIGGER CONDITION=APPLICABLE TO HALF CYLINDER, CARTRIDGE TYPE CAULKING GUN

DEFENSE WORK MEASUREMENT STANDARD TIME DATA ELEMENTS

DATA SOURCE	OCCUPATION	QUALITY	SOURCE CODE	OWMSTOP ELEMENT	TMU VALUE	OPERATION/ELEMENT DESCRIPTION
NF	86X	MAF	340/341	MTPTC01	578	TOOL,CONNECT TO AND DISCONNECT FROM EXTENSION CORD LYING ON FLOOR STARTS-WITH LOOK TO END OF TOOL CORD INCLUDES-ALL MOTIONS NECESSARY TO WALK FOUR PACES,BEND TO END OF TOOL CORD,GET CORD,ARISE, WALK FOUR PACES TO END OF EXTENSION CORD,BEND, GET END OF EXTENSION CORD,PLUG TOOL INTO EXTENSION CORD,PLACE CORD ON FLOOR,AND ARISE; AND LOOK FOR CORD CONNECTION,WALK FOUR PACES, BEND,GET CORD,SEPARATE TOOL CORD FROM EXTENSION,AND ASIDE CORD ENDS ENDS-WITH ARISE FROM BEND
AE	860	MAW	FCHEAP1	MJPBH01	75	BOARD,HOLD FOR SAWING STARTS-WITH REACH TO BOARD INCLUDES-ALL THE MOTIONS NECESSARY TO REACH TO BOARD;MOVE BOARD TO POSITION,PUT KNEE ON BOARD;REMOVE-KNEE FROM BOARD AND RELEASE BOARD ENDS-WITH RELEASE BOARD CONOITIONS-NO TIME INCLUDED FOR SAWING
NF	860	MAF	336/337	MJPB101	234	BIT,INSTALL IN AND REMOVE FROM BRACE STARTS-WITH REACH TO BIT;BRACE IN HAND INCLUDES-ALL MOTIONS NECESSARY TO PICK UP BIT, POSITION IN CHUCK,AND TIGHTEN CHUCK;AND LOOSEN CHUCK,AND REMOVE BIT ENDS-WITH ASIDE BRACE AND BIT
AE	860	MAW	FCHEAL1	MJPB102	173	BIT,INSTALL IN AND REMOVE FROM HAND DRILL STARTS-WITH MOVE BIT TO CHUCK INCLUDES-ALL MOTIONS NECESSARY TO POSITION DRILL INTO CHUCK,TIGHTEN CHUCK;LOOSEN AND RELEASE CHUCK ENDS-WITH RELEASE CHUCK
AE	860	MAW	FCHEAB2	MJPB103	102	BIT,INSTALL IN AND REMOVE FROM SPIRAL DRILL STARTS-WITH GET HOLD OF CHUCK INCLUDES-ALL MOTIONS NECESSARY TO OPEN SPRING CHUCK,INSERT DRILL IN CHUCK,LOCK CHUCK AND MOVE DRILL READY FOR USE;MOVE DRILL AND OPEN CHUCK,REMOVE DRILL AND RELEASE CHUCK SPRING ENDS-WITH RELEASE SPRING
NF	860	MAF	117	MOHCA01	111	CARTRIDGE,ASSEMBLE TO STUD STARTS-WITH GET STUD INCLUDES-ALL MOTIONS NECESSARY TO GET CARTRIDGE AND ASSEMBLE TO STUD ENDS-WITH ASIDE ASSEMBLY
AE	860	MAW	FCHEAW1	MOHNG01	65	NAILS,GET FROM BOX STARTS-WITH REACH TO BOX OF NAILS INCLUDES-ALL MOTIONS NECESSARY TO GET A HANDFUL OF NAILS ENDS-WITH MOVE HAND AWAY FROM BOX
NF	860	MAF	328	MOHPLO1	704	PARTITION(ASSEMBLED),LIFT FROM FLOOR AND POSITION TO MARKS STARTS-WITH KNEEL TO GET PARTITION INCLUDES-ALL MOTIONS NECESSARY TO GRASP TOP PLATE,ARISE FROM FLOOR WITH PARTITION,LIFT PARTITION TO VERTICAL POSITION,AND POSITION PARTITION TO MARKS AT BOTTOM AND TOP ENDS-WITH HANDS ON PARTITION CONDITION-APPLICABLE TO PARTITION WITH ENW TO 160 POUNDS.TIME VALUE IS TOTAL FOR TWO OPERATORS

DEFENSE WORK MEASUREMENT STANDARD TIME DATA ELEMENTS

DATA SOURCE	OCCUP- ATION	QUALITY	SOURCE CODE	DWMSTOP ELEMENT	THU VALUE	OPERATION/ELEMENT DESCRIPTION
NF	860	MAF	194	MOHPMO1	277	PLATE(FOUNDATION),MAKE LEVEL WITH SHIMS STARTS-WITH KNEEL TO PLATE INCLUDES-ALL MOTIONS NECESSARY TO RAISE PLATE, GET TWO SHIMS,AND INSERT SHIMS UNDER PLATE ENDS-WITH ARISE CONDITION-TIME TO GET AND POSITION PLATE NOT INCLUDED
NF	860	MAF	195	MOHPP01	441	PLATE(FOUNDATION),POSITION TO BOLTS SET IN CONCRETE STARTS-WITH PLATE IN HANDS INCLUDES-ALL THE MOTIONS NECESSARY TO BEND TO FOUNDATION AND POSITION PLATE ON BOLTS ENDS-WITH ARISE FROM BEND CONDITIONS-APPLICABLE TO INSTALLATION OF 2" X 4" OR 2" X 6" PLATE 12 FEET LONG WITH BOLT HOLES ON 4-FOOT CENTERS,TIME VALUE IS FOR TWO OPERATORS.
AE	860	MAW	FCHEAG1	MTLBPO1	69	BIT(AND BRACE),POSITION FOR DRILLING AND REMOVE STARTS-WITH MOVE DRILL TO MARK INCLUDES-ALL THE MOTIONS NECESSARY TO POSITION DRILL BIT TO MARK,PUSH POINT OF BIT INTO WOOD; DISENGAGE BIT FROM HOLE AND MOVE BRACE FROM WORK AREA ENDS-WITH BRACE IN HANDS,MOVED FROM HOLE CONDITIONS-DOES NOT INCLUDE TIME FOR DRILLING HOLE OR TURNING BRACE TO REMOVE BRACE. APPLICABLE TO BRACE AND BIT OR HAND DRILL
NF	860	MAF	252	MTLBSXX	VARIABLE	BOARD,SAW IN MITER BOX STARTS-WITH BOARD IN HAND INCLUDES-ALL MOTIONS NECESSARY TO GET SAW HANDLE,LIFT SAW,POSITION BOARD IN BOX,POSITION SAW TO BOARD,AND MAKE ONE FORWARD AND ONE RETURN STROKE WITH SAW ENDS-WITH RELEASE OF SAW HANDLE;BOARD IN BOX CASE 01 POSITION BOARD AND MAKE ONE STROKE (FORWARD AND RETURN)WITH SAW 02 EACH ADDITIONAL STROKE WITH SAW
AE	860	MAW	FCHEA21	MTLDPO1	37	DRILL(SPIRAL),POSITION TO MARK AND REMOVE STARTS-WITH MOVE TOOL TO MARK INCLUDES-ALL THE MOTIONS NECESSARY TO MOVE DRILL,POSITION TO MARK;DISENGAGE DRILL FROM HOLE ENDS-WITH DRILL DISENGAGED FROM HOLE
AE	860	MAW	FCHEA42	MTLHDO1	23	HOLE,DRILL WITH SPIRAL DRILL,PER STROKE STARTS-WITH DRILL IN POSITION FOR USE INCLUDES-ALL MOTIONS NECESSARY TO PUSH SPIRAL DRILL DOWN AND RETURN ENDS-WITH END OF RETURN STROKE
NF	860	MAF	322	MTLLS01	281	LINE,STRIKE WITH CHALK LINE STARTS-WITH LINE HELD NEAR REFERENCE POINTS BY TWO OPERATORS INCLUDES-ALL MOTIONS NECESSARY TO MOVE LINE TO REFERENCE POINTS,HOLD,GET CHALK LINE,RAISE VERTICALLY,AND RELEASE CORD TO STRIKE LINE ENDS-WITH LINE ON SURFACE CONDITION-TIME VALUE IS TOTAL FOR TWO OPERATORS
AE	860	MAW	FCHEAX1	MTLNPO1	59	NAIL,POSITION AND START TO DRIVE WITH HAMMER STARTS-WITH MOVE NAIL FROM PALM TO FINGERS INCLUDES-ALL MOTIONS NECESSARY TO GET NAIL FROM PALM,MOVE,POSITION AND HOLD NAIL,MOVE HAMMER AND TAP NAIL TO START(ONE BLOW) ENDS-WITH NAIL STARTED INTO BOARD

DEFENSE WORK MEASUREMENT STANDARD TIME DATA ELEMENTS

DATA SOURCE	OCCUPATION	QUALITY	SOURCE CODE	DWMSTOP ELEMENT	TMU VALUE	OPERATION/ELEMENT DESCRIPTION
NF	860	MAF	263	MTLNSXX	VARIABLE	<p>NAIL, START IN BOARD STARTS-WITH SIMO GET NAILS FROM POCKET AND HAMMER FROM LOOP INCLUDES-ALL MOTIONS NECESSARY TO POSITION NAIL, AND STRIKE NAIL TWO BLOWS WITH HAMMER TO START IN BOARD ENDS-WITH HAMMER IN HAND CONDITION-APPLICABLE TO PRE-NAILING FASCIA STRIPS, ETC.</p> <p>99 CASE 01 FIRST NAIL 72 02 EACH ADDITIONAL NAIL (POSITION AND STRIKE NAIL ONLY)</p>
AE	860	MAW	FCHEAB1	MTLPA01	192	<p>PLANE (HAND), ADJUST STARTS-WITH PLANE IN HAND INCLUDES-ALL MOTIONS NECESSARY TO TURN PLANE. CHECK FOR BLADE HEIGHT, ADJUST BLADE HEIGHT BY TURNING ADJUSTING KNOB, MOVE LEVER TO ADJUST LEVEL, TURN PLANE OVER AND MOVE TOWARDS WORK ENDS-WITH PLANE IN HANDS, READY TO POSITION TO BOARD CONDITIONS-PLANE WEIGHS APPROXIMATELY 10 POUNDS</p>
AE	860	MAW	FCHSOXX	STLDHXX	VARIABLE	<p>HOLE, DRILL WITH SPIRAL DRILL (ONE INCH HOLE) STARTS-WITH GET DRILL INCLUDES-ALL MOTIONS NECESSARY TO GET DRILL, GET AND INSTALL DRILL BIT, POSITION DRILL TO MARK AND DRILL HOLE, REMOVE BIT FROM DRILL AND ASIDE DRILL AND BIT; OR MOVE TO ADDITIONAL MARK AND DRILL HOLE ENDS-WITH ASIDE DRILL OR REMOVE DRILL FROM HOLE CONDITIONS-APPROXIMATELY FIVE STROKES REQUIRED TO DRILL HOLE 385 CASE 01 DRILL FIRST HOLE ONE INCH DEEP WITH SPIRAL DRILL 152 02 DRILL ADDITIONAL HOLE ONE INCH DEEP WITH SPIRAL DRILL</p>
AE	860	MAW	FCHNLXX	STLNRXX	VARIABLE	<p>NAIL, REMOVE WITH HAMMER STARTS-WITH GET HAMMER INCLUDES-ALL MOTIONS NECESSARY TO GET HAMMER, POSITION CLAWS TO NAIL, PULL NAIL OUT, REMOVE NAIL FROM HAMMER CLAWS AND ASIDE NAIL AND HAMMER; OR MOVE HAMMER TO NEXT NAIL, REMOVE AND ASIDE NAIL ENDS-WITH ASIDE HAMMER OR NAILS 124 CASE 01 REMOVE FIRST NAIL 86 02 REMOVE ADDITIONAL NAIL</p>
NF	860	MAF	116	MTPG001	99	<p>GUN (POWDER ACTUATED), OPEN AND CLOSE STARTS-WITH REACH TO GUN INCLUDES-ALL MOTIONS NECESSARY TO GET GUN, PRESS LEVER DOWN, OPEN GUN STOCK, PRESS LEVER DOWN, CLOSE GUN STOCK, AND MOVE LEVER TO LOCK ENDS-WITH RELEASE OF LEVER, GUN IN HAND</p>
NF	860	MAF	115	MTPGP01	221	<p>GUN (POWDER ACTUATED), POSITION AND FIRE ONE BOLT OR STUD STARTS-WITH STUD GUN IN HAND INCLUDES-ALL MOTIONS NECESSARY TO MOVE GUN TO POSITION, AND FIRE GUN ENDS-WITH ASIDE GUN</p>
DNF	860	MAF	STPSI01	STPSI01	494	<p>STUD, INSTALL WITH POWDER ACTUATED GUN STARTS-WITH REACH FOR STUD INCLUDES-ALL MOTIONS NECESSARY TO GET STUD, GET CARTRIDGE, ASSEMBLE STUD AND CARTRIDGE, GET GUN, OPEN GUN, INSTALL CARTRIDGE AND STUD ASSEMBLY, CLOSE GUN, POSITION GUN, FIRE STUD, AND ASIDE GUN ENDS-WITH RELEASE OF GUN</p>

DEFENSE WORK MEASUREMENT STANDARD TIME DATA ELEMENTS

DATA SOURCE	OCCUP- ATION	QUALITY	SOURCE CODE	DWMSTD ELEMENT	TMU VALUE	OPERATION/ELEMENT DESCRIPTION
NF	861	MAF	1436	MNFM401	82	MORTAR, APPLY TO ONE END AND ONE SIDE OF BRICK STARTS-WITH TROWEL AND BRICK IN HAND INCLUDES-ALL MOTIONS NECESSARY TO APPLY MORTAR TO END OF BRICK, TURN BRICK, AND APPLY MORTAR TO SIDE OF BRICK ENDS-WITH TROWEL AND BRICK IN HAND CONDITIONS-TIME TO OBTAIN MORTAR ON TROWEL NOT INCLUDED
NF	861	MAF	1443	MNFM402	244	MORTAR, APPLY ON THREE BRICK LENGTHS: FURROW AND CUT JOINT STARTS-WITH TROWEL LOADED WITH MORTAR IN HAND INCLUDES-ALL MOTIONS NECESSARY TO THROW MORTAR ON THREE BRICKS, FURROW JOINT, AND CUT JOINT WITH TROWEL ENDS-WITH TROWEL IN HAND
NF	861	MAF	1506	MNFM403	28	MORTAR, APPLY TO ONE END OF BRICK STARTS-WITH BRICK AND TROWEL FILLED WITH MORTAR IN HAND INCLUDES-ALL MOTIONS NECESSARY TO MOVE TROWEL TO BRICK AND PRESS MORTAR ON ONE END ENDS-WITH BRICK AND TROWEL IN HAND
NF	861	MAF	1331/32	MOHB0XX	VARIABLE	BRICK(FIRE), DIP IN ADHESIVE STARTS-WITH FIRE BRICK IN HAND INCLUDES-ALL MOTIONS NECESSARY TO SIDESTEP AND STOP TO ADHESIVE PAN, DIP BRICK IN ADHESIVE, REMOVE, AND SHAKE TO REMOVE EXCESS ENDS-WITH BRICK AND TURN TO INSTALLATION POINT CASE 01 DIP TWO SIDES OF BRICK CASE 02 DIP THREE SIDES OF BRICK
NF	861	MAF	1329	MOHB001	169	BRICK, OBTAIN AND WET, PREPARATORY TO INSTALLATION STARTS-WITH TURN TO PILE OF BRICKS INCLUDES-ALL MOTIONS NECESSARY TO BEND, GET BRICK, MOVE BRICK IN AND OUT OF CONTAINER OF WATER, ARISE, AND TURN TO WALL ENDS-WITH BRICK IN HAND
NF	861	MAF	1337	MOHB001	280	BRICK(FIRE), PLACE AND TAP INTO POSITION STARTS-WITH BRICK AND TROWEL IN HAND INCLUDES-ALL MOTIONS NECESSARY TO MOVE BRICK TO WALL AND POSITION; TAP END, SIDE, AND TOP OF BRICK WITH TROWEL ENDS-WITH BRICK IN PLACE CONDITIONS-APPLICABLE TO REPAIR WORK ONLY
NF	861	MAF	1310	MOHB501	591	BED(MORTAR SETTING), SMOOTH PRIOR TO LEVELING, PER FOUR SQUARE FEET STARTS-WITH KNEEL ON BOTH KNEES INCLUDES-ALL MOTIONS NECESSARY TO GET BOARD, PLACE TO MORTAR, AND MOVE BOARD SIDEWAYS TO SMOOTH MIX, AND ASIDE BOARD ENDS-WITH ARISE
NF	861	MAF	1338	MOHB001	475	BRICK(JAMB FIRE), TAP INTO POSITION ON OUTSIDE CORNER STARTS-WITH BRICK AND TROWEL IN HAND INCLUDES-ALL MOTIONS NECESSARY TO MOVE BRICK INTO POSITION; TAP END, SIDE, AND TOP OF BRICK WITH TROWEL; CHECK ALIGNMENT, TAP BRICK AS NECESSARY AND RECHECK ALIGNMENT ENDS-WITH TROWEL IN HAND CONDITIONS-APPLICABLE TO REPAIR WORK ONLY

DEFENSE WORK MEASUREMENT STANDARD TIME DATA ELEMENTS

DATA SOURCE	OCCUP- ATION	QUALITY	SOURCE CODE	DWMSTD ELEMENT	TMU VALUE	OPERATION/ELEMENT DESCRIPTION
NF	861	MAF	1512	MOHBTO2	673	BRICK, TAP INTO POSITION FOR TIE-IN STARTS-WITH BRICK IN ONE HAND, HAMMER IN OTHER HAND INCLUDES-ALL MOTIONS NECESSARY TO GET BRICK WITH BOTH HANDS (HAMMER PALMED); POSITION BRICK IN MORTAR; TAP END, SIDE, AND TOP OF BRICK TO SEAT; CHECK VISUALLY; TAP END, SIDE, AND TOP OF BRICK SECOND TIME; AND CHECK VISUALLY ENDS-WITH HAMMER IN HAND CONDITIONS-BRICK WEIGHS APPROXIMATELY 15 POUNDS. APPLICABLE TO REPAIR WORK ONLY
NF	861	MAF	1508	SOHB001	429	BAG (CEMENT), OBTAIN AND OPEN STARTS-WITH WALK TWO PACES TO CEMENT STORAGE INCLUDES-ALL MOTIONS TO BEND TO BAG OF CEMENT, PICK UP CEMENT, TURN, WALK TWO PACES TO MIXING LOCATION, SET CEMENT DOWN, ARISE, AND PULL TAB TO OPEN BAG ENDS-WITH ASIDE TAB
NF	861	MAF	1306/07	SOHB001	574	BACKING (PAPER), REMOVE FROM TILE FIELD, 13"x26" STARTS-WITH GET RAG OR SPONGE INCLUDES-ALL MOTIONS NECESSARY TO DIP RAG OR SPONGE IN CONTAINER OF WATER, SQUEEZE TO REMOVE EXCESS, WIPE FIELD OF TILE, ASIDE SPONGE, GET EDGE OF PAPER BACKING, PULL PAPER OFF, SWEEP DEBRIS WITH HAND, AND ASIDE DEBRIS ENDS-WITH RELEASE OF DEBRIS
NF	861	MAF	1408	SOHGPO1	333	GROUT, POUR AND WORK INTO CRACKS OF FLOOR TILE, PER SQUARE FOOT STARTS-WITH REACH FOR PAIL OF GROUT INCLUDES-ALL MOTIONS NECESSARY TO MOVE PAIL INTO POSITION, INVERT, POUR GROUT OVER TILE, SET PAIL ASIDE, GET BRUSH, BRUSH GROUT, AND ASIDE BRUSH ENDS-WITH RELEASE OF BRUSH CONDITIONS-PAIL OF GROUT WEIGHS TO 10 POUNDS
NF	861	MAF	1486	SOHTPO1	417	TILE, POSITION AND LEVEL TO ADJOINING TILE STARTS-WITH REACH TO TILE INCLUDES-ALL MOTIONS NECESSARY TO GET TILE, POSITION, GET BLOCK, PLACE ON TILE, TAP WITH PALM, REMOVE BLOCK, INSPECT VISUALLY, MOVE BLOCK TO TILE, TAP WITH PALM, REMOVE BLOCK, INSPECT, AND ASIDE BLOCK ENDS-WITH RELEASE OF BLOCK CONDITIONS-APPLICABLE TO REPLACEMENT OF TILE
NF	861	MAF	1327	MTLB001	331	BRICK, BREAK WITH TROWEL TO FIT STARTS-WITH TURN TO PILE OF BRICKS INCLUDES-ALL MOTIONS NECESSARY TO BEND, PICK UP BRICK, ARISE, TURN TO WALL, POSITION BRICK TO MEASURE, MARK BRICK WITH TROWEL, MOVE BRICK TO FRONT OF BODY, STRIKE WITH TROWEL TO BREAK, AND MOVE BRICK TO WALL TO CHECK FIT ENDS-WITH BRICK IN HAND
NF	861	MAF	1465	MTLBC01	660	BAG, CUT, CEMENT OR SIMILAR USING TROWEL STARTS-WITH BEND TO BAG OF CEMENT INCLUDES-ALL MOTIONS NECESSARY TO PICK UP BAG OF CEMENT, LIFT TO POSITION, GET TROWEL, STRIKE BAG TO CUT IN HALF, LIFT BAG TO FOLD, AND CUT REMAINDER OF BAG WITH TROWEL TO SEPARATE HALVES ENDS-WITH ASIDE TROWEL AND ARISE
NF	861	MAF	1309	MTLBS01	357	BED (MORTAR SETTING), SCREED, PER TWO SQUARE FEET STARTS-WITH SCREED IN HAND INCLUDES-ALL MOTIONS NECESSARY TO SCREED TWO SQUARE FEET OF MORTAR SETTING BED ENDS-WITH SCREED IN HAND

DEFENSE WORK MEASUREMENT STANDARD TIME DATA ELEMENTS

DATA SOURCE	OCCUP- ATION	QUALITY	SOURCE CODE	OWMSTOP ELEMENT	TMU VALUE	OPERATION/ELEMENT DESCRIPTION
NF	861	MAF	1510	MTLCB01	190	BRICK,CHIP OUT WITH CHISEL AND HAMMER,PER CUBIC INCH STARTS-WITH CHISEL AND HAMMER IN HAND INCLUDES-ALL MOTIONS NECESSARY TO MOVE CHISEL TO BRICK,MOVE HAMMER TO CHISEL,AND CHIP OUT ONE CUBIC INCH OF BRICK(SIX HAMMER BLOWS) ENDS-WITH CHISEL AND HAMMER IN HAND CONDITIONS-NO TIME ALLOWED FOR REPOSITIONING CHISEL
NF	861	MAF	1426	MTLJC01	246	JOINT(MORTAR),CUT OFF,BOTTOM AND ONE END,THREE BRICKS,WITH TROWEL STARTS-WITH TROWEL IN HAND INCLUDES-ALL MOTIONS NECESSARY TO CUT OFF ONE HORIZONTAL JOINT(THREE BRICKS LONG),SHAKE MORTAR FROM TROWEL TO MORTAR PAN,CUT OFF THREE VERTICAL JOINTS(ONE BRICK HIGH),AND SHAKE MORTAR INTO PAN ENDS-WITH TROWEL IN HAND
NF	861	MAF	1427	MTLJC02	117	JOINT(MORTAR),CUT OFF,BOTTOM AND ONE END,ONE BRICK,WITH TROWEL STARTS-WITH TROWEL IN HAND INCLUDES-ALL MOTIONS NECESSARY TO CUT OFF ONE HORIZONTAL AND ONE VERTICAL JOINT(ONE BRICK ONLY) AND SHAKE MORTAR FROM TROWEL INTO MORTAR PAN ENDS-WITH TROWEL IN HAND
NF	861	MAF	1428	MTLJP01	208	JOINT(MORTAR),POINT UP HORIZONTAL AND VERTICAL 8"x16" BLOCK STARTS-WITH POINTING TOOL IN HAND INCLUDES-ALL MOTIONS NECESSARY TO POINT UP ONE VERTICAL AND ONE HORIZONTAL JOINT OF ONE BLOCK ENDS-WITH TOOL IN HAND
NF	861	MAF	1429	MTLJS01	195	JOINT(MORTAR),STRIKE,VERTICAL AND HORIZONTAL, ONE BLOCK,WITH TROWEL STARTS-WITH TROWEL IN HAND INCLUDES-ALL MOTIONS NECESSARY TO MOVE TROWEL TO VERTICAL JOINT,STRIKE JOINT,SHAKE MORTAR FROM TROWEL,STRIKE HORIZONTAL JOINT,AND SHAKE MORTAR FROM TROWEL ENDS-WITH TROWEL IN HAND
NF	861	MAF	1492	MTLTF01	132	TROWEL,FILL WITH MORTAR STARTS-WITH TROWEL IN HAND INCLUDES-ALL MOTIONS NECESSARY TO TURN AND BEND TO MORTAR PAN,DIP TROWEL IN MORTAR,LIFT LOADED TROWEL,ARISE,AND TURN TO WORK ENDS-WITH TROWEL FILLED WITH MORTAR IN HAND
NF	862	MAF	3320	SEMP01	252	TOOL(REAMING),POSITION AND RETURN,TOLEDO 999 PIPE MACHINE OR SIMILAR STARTS-WITH REACH TO REAMER INCLUDES-ALL MOTIONS NECESSARY TO SWING REAMER DOWN TO CUTTING POSITION,MOVE CARRIAGE TO BRING REAMER TO PIPE END,MOVE REAMER INTO PIPE,MOVE CARRIAGE AWAY,AND RAISE REAMER ENDS-WITH RELEASE OF REAMER CONDITIONS-DOES NOT INCLUDE TIME FOR REAMING
NF	862	MAF	602	MNFSIXX VARIABLE	90 43	STAPLE,INSTALL IN PIPE COVER STARTS-WITH REACH TO PIPE COVER,STAPLER IN HAND INCLUDES-ALL MOTIONS NECESSARY TO POSITION COVER AND INSTALL STAPLE ENDS-WITH STAPLE INSTALLED,STAPLER IN HAND CASE 01 FIRST STAPLE 02 EACH ADDITIONAL STAPLE(POSITIONING OF COVER NOT REQUIRED)

DEFENSE WORK MEASUREMENT STANDARD TIME DATA ELEMENTS

DATA SOURCE	OCCUP- ATION	QUALITY	SOURCE CODE	DWMSTD ELEMENT	TMU VALUE	OPERATION/ELEMENT DESCRIPTION
NF	862	MAF	3733	MOHCGXX	VARIABLE	COVER(PIPE),GET AND POSITION ON PIPE,LENGTH OF COVER-THREE FEET STARTS-WITH GET COVER INCLUDES-ALL MOTIONS NECESSARY TO OPEN COVER, SLIDE OVER PIPE,AND POSITION ENDS-WITH RELEASE OF COVER 119 CASE 01 SMALL PIPE,TO TWO INCHES DIAMETER 188 02 MEDIUM PIPE,TWO-SIX INCHES DIAMETER 314 03 LARGE PIPE,GREATER THAN SIX INCHES DIAMETER
NF	862	MAF	556	MOHCOO1	288	CLOTH,OBTAIN FROM ROLL STARTS-WITH REACH TO CLOTH ON ROLL INCLUDES-ALL MOTIONS NECESSARY TO UNROLL TO 16 INCHES OF CLOTH,GET KNIFE,SLIT CLOTH,ASIDE KNIFE,AND TEAR CLOTH TO SEPARATE FROM ROLL ENDS-WITH RELEASE OF CLOTH CONDITIONS-CLOTH IS 36 INCHES WIDE,APPLICABLE TO OBTAINING MUSLIN OR SIMILAR FOR WRAPPING PIPES AND FITTINGS
NF	862	MAF	557	MOHCSO1	134	CLOTH,SMOOTH AFTER WRAPPING AROUND PIPE FITTING STARTS-WITH REACH TO CLOTH INCLUDES-ALL MOTIONS NECESSARY TO STRAIGHTEN AND SMOOTH CLOTH WRAPPING WITH HANDS ENDS-WITH RELEASE OF CLOTH CONDITIONS-APPLICABLE TO SMOOTHING CLOTH WRAPPED AROUND FITTING FOR INSULATION
NF	862	MAF	654	MOHFWO1	310	FITTING,WRAP WITH WIRE(CHICKEN WIRE OR SIMILAR) STARTS-WITH REACH TO WIRE INCLUDES-ALL MOTIONS NECESSARY TO WRAP WIRE AROUND PIPE FITTING ENDS-WITH RELEASE OF WIRE
NF	862	MAF	3738	MOHGI01	97	GASKET,INSERT BETWEEN FLANGE JOINTS TO TWO-INCH INSIDE DIAMETER STARTS-WITH REACH TO GASKET INCLUDES-ALL MOTIONS NECESSARY TO GET GASKET, POSITION BETWEEN FLANGES,ALIGN GASKET TO HOLE, AND PRESS GASKET INTO PLACE ENDS-WITH RELEASE OF GASKET
NF	862	MAF	3309	MOHJA01	332	JOINT(FLANGE),ALIGN STARTS-WITH REACH TO FLANGE INCLUDES-ALL MOTIONS NECESSARY TO BRING FLANGE TOGETHER,ALIGN APPROXIMATELY,GET PIN, INSERT IN BOLT HOLE,ALIGN FLANGES,AND REMOVE PIN ENDS-WITH ASIDE PIN CONDITIONS-TIME FOR INSTALLATION OF BOLTS NOT INCLUDED-APPLICABLE TO PIPE TWO-SIX INCHES INSIDE DIAMETER.
NF	862	MAF	3310	MOHJA02	171	JOINT(FLANGE),ALIGN WITH PIN STARTS-WITH GET PIN INCLUDES-ALL MOTIONS NECESSARY TO INSERT PIN THROUGH BOLT HOLES IN TWO FLANGES TO BRING FLANGES INTO ALIGNMENT ENDS-WITH ASIDE PIN CONDITIONS-TIME FOR INSTALLATION OF BOLTS NOT INCLUDED
NF	862	MAF	542/3/4	MOHLOO1	823	LAMPWICK,OBTAIN AND WRAP ON THREADS OF PIPE STARTS-WITH REACH TO ROLL OF LAMPWICK INCLUDES-ALL MOTIONS NECESSARY TO GET ROLL OF LAMPWICK,UNROLL SIX-FOOT SECTION,BREAK SECTION FROM ROLL,ASIDE ROLL,SEPARATE STRANDS OF LAMPWICK,AND WRAP STRAND ON THREADS OF PIPE ENDS-WITH RELEASE OF LAMPWICK

DEFENSE WORK MEASUREMENT STANDARD TIME DATA ELEMENTS

DATA SOURCE	OCCUP- ATION	QUALITY	SOURCE CODE	DWMSTDP ELEMENT	TMU VALUE	OPERATION/ELEMENT DESCRIPTION
NF	862	MAF	1682	MOHPP01	264	PIPE, POSITION IN THREADING MACHINE AND REMOVE, TO FOUR-FOOT LENGTH STARTS-WITH PIPE IN HAND INCLUDES-ALL MOTIONS NECESSARY TO MOVE END OF PIPE TO CHUCK, POSITION, MOVE PIPE INTO CHUCK, TURN, STEP TO OTHER SIDE OF CHUCK, PULL PIPE END THROUGH CHUCK, AND POSITION PIPE IN CHUCK; AND SIDESTEP TO END OF MACHINE, GET PIPE, AND SLIDE FROM CHUCK ENDS-WITH PIPE IN HAND CONDITIONS-APPLICABLE TO 1/4"-2" INSIDE DIAMETER PIPE. MACHINE TIME NOT INCLUDED.
NF	862	MAF	1684	MOHPP02	442	PIPE, POSITION IN THREADING MACHINE AND REMOVE, 4-20 FEET IN LENGTH STARTS-WITH PIPE IN HAND INCLUDES-ALL MOTIONS NECESSARY TO MOVE END OF PIPE TO V-ROLLER, POSITION ON ROLLER, SIDESTEP TO CHUCK, MOVE END OF PIPE TO CHUCK, TURN, WALK TO OTHER SIDE OF CHUCK, AND PULL END OF PIPE THROUGH CHUCK; AND TURN, WALK TO REAR OF MACHINE, GET PIPE, AND REMOVE FROM CHUCK ENDS-WITH PIPE IN HAND CONDITIONS APPLICABLE TO 1/4"-2" INSIDE DIAMETER PIPE. MACHINE TIME NOT INCLUDED
NF	862	MAF	3313	MOHPP03	359	PIPE, POSITION IN THREADING MACHINE CHUCK AND REMOVE, TO FOUR FOOT LENGTH STARTS-WITH PIPE IN HAND INCLUDES-ALL MOTIONS NECESSARY TO MOVE PIPE TO CHUCK WHILE WALKING TWO PACES, POSITION END OF PIPE TO CHUCK, AND PUSH PIPE THROUGH CHUCK TO CARRIAGE CYLINDER; AND TURN AND WALK TO END OF MACHINE, AND SLIDE PIPE FROM MACHINE ENDS-WITH PIPE IN HANDS CONDITIONS-APPLICABLE TO PIPE FOUR TO SIX INCHES DIAMETER LOADED IN HEAVY DUTY PIPE MACHINE. NO TIME INCLUDED FOR POSITIONING OR SECURING PIPE IN MACHINE.
NF	862	MAF	599/600	MOHSA01	1757	SNAKE, ATTACH TO AND REMOVE FROM PIPE, PREPATORY TO LEAD POUR STARTS-WITH REACH TO SNAKE INCLUDES-ALL MOTIONS NECESSARY TO GET SNAKE AND WRAP AROUND PIPE, SECURE SNAKE WITH CLAMP, GET YARN AND POSITION TO PIPE AND CLAMP, PUSH SNAKE AGAINST PIPE, GET HAMMER, POUND SNAKE TO ALIGN SNARE, PLACE HAMMER ASIDE, INSPECT JOINT, REMOVE CLAMP, REMOVE SNAKE, ASIDE SNAKE, AND INSPECT JOINT ENDS-WITH COMPLETION OF INSPECTION
NF	862	MAF	601	MOHSP01	331	STAND(PIPE), POSITION UNDER PIPE STARTS-WITH REACH TO PIPE BY FIRST OPERATOR INCLUDES-ALL MOTIONS NECESSARY FOR FIRST OPERATOR TO LIFT PIPE WHILE SECOND OPERATOR REACHES TO PIPE STAND, MOVES STAND TWO PACES AND POSITION UNDER PIPE, AND FIRST OPERATOR TO LOWER PIPE TO STAND ENDS-WITH PIPE POSITIONED ON STAND CONDITION-TIME VALUE IS TOTAL FOR TWO OPERATORS
NF	862	MAF	626	MOHTR01	167	TUBING, BEND TO MATCH FITTING STARTS-WITH REACH TO TUBE INCLUDES-ALL MOTIONS NECESSARY TO APPLY PRESSURE, BEND TUBING TO ALIGN TO FITTING, AND VISUALLY CHECK RESULTS ENDS-WITH TUBING ALIGNED TO FITTING CONDITIONS-APPLICABLE TO COPPER TUBING 1/4-3 INCHES DIAMETER

DEFENSE WORK MEASUREMENT STANDARD TIME DATA ELEMENTS

DATA SOURCE	CCUP- ATION	QUALITY	SOURCE CODE	DWMSTDP ELEMENT	TMU VALUE	OPERATION/ELEMENT DESCRIPTION
NF	862	MAF	636	MOHTU01	430	TUBING, UNROLL FROM COIL STARTS-WITH REACH TO ROLL OF TUBING INCLUDES-ALL MOTIONS NECESSARY TO UNROLL AND STRAIGHTEN THREE FEET OF TUBING FROM ROLL ENDS-WITH TUBING UNROLLED CONDITIONS-APPLICABLE TO COPPER TUBING 1/4-3 INCHES IN DIAMETER
NF	862	MAF	3440	MSUOP01	253	DIE(THREADING), POSITION TO PIPE AND RETRACT, TOLEDO MODEL 999 OR SIMILAR PIPE MACHINE STARTS-WITH REACH TO CARRIAGE INCLUDES-ALL MOTIONS NECESSARY TO MOVE CARRIAGE 24 INCHES TO END OF PIPE AND POSITION PIPE TO DIE FOR THREADING; AND OPEN DIE AND RETRACT CARRIAGE ENDS-WITH RELEASE OF CARRIAGE
NF	862	MAF	3432	MSUSA01	235	SPEED, ADJUST ON HEAVY DUTY PIPE MACHINE, THREE LEVERS STARTS-WITH TURN FROM MACHINE INCLUDES-ALL MOTIONS NECESSARY TO WALK ONE PACE TO SPEED LEVERS, CHECK SPEED CHART, MOVE EACH OF THREE LEVERS TO ADJUST SPEED, AND TURN FROM LEVERS ENDS-WITH WALK ONE PACE TO MACHINE
NF	862	MAF	3433	MSUSC01	133	SIZE(DIE), CHANGE ON HEAVY DUTY PIPE MACHINE STARTS-WITH LOOK TO MARK ON MACHINE INCLUDES-ALL MOTIONS NECESSARY TO GET LEVER AND POSITION TO CORRECT SETTING ENDS-WITH RELEASE LEVER
NF	862	MAF	3434	MSUWT01	418	WHEEL, TIGHTEN OR LOOSEN TO ADJUST REAR GUIDE CLAMPS, HEAVY DUTY PIPE MACHINE STARTS-WITH WALK FOUR PACES TO REAR OF MACHINE INCLUDES-ALL MOTIONS NECESSARY TO SIDESTEP TO WHEEL, TURN WHEEL TO TIGHTEN OR LOOSEN, AND SIDESTEP FROM WHEEL ENDS-WITH WALK FOUR PACES TO OPERATING POSITION CONDITIONS-RESISTANCE TO TURNING WHEEL UP TO 60 POUNDS, ENW
NF	862	MAF	2570/71	SSU0101	500	DIE(THREADING), INSTALL AND REMOVE, PIPE THREADING MACHINE STARTS-WITH BEND TO STORAGE SHELF UNDER MACHINE INCLUDES-ALL MOTIONS NECESSARY TO IDENTIFY THE DESIRED DIE, REMOVE FROM SLOTTED SHELF, ARISE, POSITION DIE ON SPUOS, AND CLOSE LEVER TO SECURE DIE; AND OPEN LEVER, REMOVE DIE, BEND, AND PLACE DIE IN SLOT ON SHELF ENDS-WITH ARISE FROM BEND
NF	862	MAF	576	MTFPP01	194	PIPE, POSITION AND ENGAGE THREADS(PIPE SUSPENDED ON MOIST) STARTS-WITH REACH TO END OF PIPE INCLUDES-ALL MOTIONS NECESSARY TO MOVE END OF PIPE TO FITTING, POSITION, GET PIPE WITH BOTH HANDS, AND TURN PIPE TO ENGAGE THREADS ENDS-WITH RELEASE OF PIPE
NF	862	MAF	634	MTFTA01	270	TUBING, ASSEMBLE TO THREADED FITTINGS(BOTH ENDS OF TUBING) STARTS-WITH REACH TO TUBE INCLUDES-ALL MOTIONS NECESSARY TO PICK UP TUBE, MOVE ONE END TO FITTING, HOLD, GET NUT AND ENGAGE ON THREADS, GET OTHER END OF TUBE, MOVE TO FITTING, AND ENGAGE NUT ON THREADS ENDS-WITH RELEASE OF TUBE CONDITIONS-DOES NOT INCLUDE TIME TO TURN NUT DOWN OR TO TIGHTEN NUT

DEFENSE WORK MEASUREMENT STANDARD TIME DATA ELEMENTS

DATA SOURCE	OCCUPATION	QUALITY	SOURCE CODE	DWSTDP ELEMENT	TMU VALUE	OPERATION/ELEMENT DESCRIPTION
NF	862	MAF	611	MTLCCXX	VARIABLE	COVER(PIPE), CUT WITH HACK SAW STARTS=WITH ONE HAND ON PIPE COVER, SAW IN OTHER HAND POSITIONED FOR CUTTING INCLUDES=ALL MOTIONS NECESSARY TO SAW THROUGH PIPE COVER AND ASIDE SCRAP ENDS=WITH RELEASE OF SCRAP 991 CASE 01 PIPE COVER FOR PIPE DIAMETER TWO INCHES OR LESS 1235 02 PIPE COVER FOR PIPE DIAMETER TWO-SIX INCHES 1540 03 PIPE COVER FOR PIPE DIAMETER GREATER THAN SIX INCHES
NF	862	MAF	3268	MTL0801	617	DIE, BACK OFF THREADING TOOL, HAND-HELD PIPE DIE STARTS=WITH MOVE HANDLE FORWARD INCLUDES=ALL THE MOTIONS NECESSARY TO MOVE HANDLE FORWARD 10 TIMES, SET RATCHET 10 TIMES AND MOVE HANDLE BACK 10 TIMES ENDS=WITH MOVE HANDLE BACK CONDITIONS=RATCHET IN REVERSE=MATERIAL IN VISE AND HANDLE MOVED 36 INCHES EACH MOVE
AF	862	MAA	104	MTL0P01	116	DIE, POSITION TO PIPE AND START FIRST THREAD, HAND-HELD PIPE DIE STARTS=WITH CUTTING TOOL IN HAND AND PIPE IN VISE INCLUDES=ALL THE MOTIONS NECESSARY TO POSITION TOOL TO PIPE, SEAT TOOL ON PIPE, APPLY PRESSURE AND MOVE HANDLE FORWARD, SET RATCHET, MOVE HANDLE WITH 30 POUNDS RESISTANCE ENDS=WITH MOVE HANDLE
NF	862	MAF	536/537	MTLJTXX	VARIABLE	JOINT(FLANGE), TIGHTEN OR LOOSEN, PRELIMINARY STARTS=WITH POSITION WRENCH ON FLANGE INCLUDES=ALL MOTIONS NECESSARY TO POSITION PINS IN HOLES IN FLANGE, TIGHTEN OR LOOSEN, MOVE WRENCH FROM HOLES, AND MOVE WRENCH BACK FOR NEXT TURN ENDS=WITH WRENCH IN HAND 673 CASE 01 PIN WRENCH WITH DOUBLE PIN (APPROXIMATELY 4 REVOLUTIONS) 998 02 FACE TYPE SPANNER WRENCH (APPROXIMATELY 3 REVOLUTIONS)
NF	862	MAF	571	MTLPC01	3830	PIPE, CUT WITH PIPE CUTTER STARTS=WITH CUTTER POSITIONED ON PIPE INCLUDES=ALL MOTIONS NECESSARY TO MAKE 18 REVOLUTIONS WITH CUTTER TO CUT PIPE ENDS=WITH PIPE SEPARATED
NF	862	MAF	627	MTLTBXX	VARIABLE	TUBING, BEND WITH TUBING BENDER STARTS=WITH GET BENDING DEVICE INCLUDES=ALL MOTIONS NECESSARY TO POSITION DEVICE ON TUBING, MAKE BEND TO 90 DEGREES, AND REMOVE DEVICE ENDS=WITH ASIDE BENDING DEVICE CONDITIONS=APPLICABLE TO COPPER TUBING 1/4-3 INCHES OUTSIDE DIAMETER 405 CASE 01 BEND TUBE WITH BENDING SPRING 498 02 BEND TUBE WITH TUBE BENDER
NF	862	MAF	620/621	MTLTCXX	VARIABLE	TUBING, CUT OFF WITH HAND CUTTER STARTS=WITH REACH TO TUBING CUTTER INCLUDES=ALL MOTIONS NECESSARY TO POSITION CUTTER ON TUBE, ADJUST TO TUBE, CUT TUBE, BREAK OFF END OF TUBE, AND REMOVE CUTTER ENDS=WITH ASIDE CUTTER 723 CASE 01 CUT TUBING TO 3/4 INCH DIAMETER 1528 02 CUT TUBING 7/8 - 3 INCHES DIAMETER

DEFENSE WORK MEASUREMENT STANDARD TIME DATA ELEMENTS

DATA SOURCE	OCCUPATION	QUALITY	SOURCE CODE	DWMSTOP ELEMENT	TMU VALUE	OPERATION/ELEMENT DESCRIPTION
NF	862	MAF	632	STLTF01	1284	TUBING, FLARE END STARTS-WITH GET FLARING BLOCK INCLUDES-ALL MOTIONS NECESSARY TO OPEN FLARING BLOCK, GET TUBE, PLACE FLARING BLOCK ON TUBE, TIGHTEN BLOCK(TWO NUTS), ATTACH FLARING TOOL, FLARE END OF TUBE, REMOVE FLARING TOOL, REMOVE BLOCK, AND ASIDE TUBE ENDS-WITH ASIDE FLARING BLOCK CONDITIONS-APPLICABLE TO COPPER TUBING 1/4-3 INCHES OUTSIDE DIAMETER
NF	862	MAF	633	STLTR01	450	TUBING, REAM END WITH HAND REAMER STARTS-WITH GET REAMER INCLUDES-ALL MOTIONS NECESSARY TO POSITION REAMER TO TUBE, REAM TUBE, AND REMOVE REAMER ENDS-WITH ASIDE REAMER CONDITIONS-APPLICABLE TO COPPER TUBING 1/4-3 INCHES OUTSIDE DIAMETER
NF	862	MUF	878	MVSV001	266	WISE(PIPE), OPEN OR CLOSE AND TIGHTEN STARTS-WITH REACH TO WISE INCLUDES-ALL MOTIONS NECESSARY TO PULL WISE HANDLE TO LOOSEN, SPIN HANDLE TO RELEASE WISE ROD, OPEN WISE ROD, AND OPEN UPPER JAW ENDS-WITH RELEASE OF UPPER JAW CONDITION-REVERSE MOTION PATTERN, SAME TIME, REQUIRED TO CLOSE WISE, NO TIME ALLOWED FOR MOVING OR POSITIONING PIPE
NF	863	MAF	3728	MOHSP01	208	SHINGLE (ASBESTOS), POSITION TO WALL STARTS-WITH SHINGLE IN HAND INCLUDES-ALL MOTIONS NECESSARY TO GRASP SHINGLE WITH BOTH HANDS, MOVE SHINGLE TO WALL, ALIGN, PUSH NEW SHINGLE UNDER SHINGLE ON WALL, GET HAMMER FROM HAMMER LOOP, AND TAP SHINGLE IN PLACE ENDS-WITH HAMMER IN HAND CONDITION-APPLICABLE TO THE REPLACEMENT OF BROKEN SHINGLES
NF	863	MAF	247	MOHSR01	485	SHINGLE (BROKEN), REMOVE FROM WALL, ASBESTOS SHINGLE STARTS-WITH HAMMER IN HAND INCLUDES-ALL MOTIONS NECESSARY TO USE HAMMER TO BREAK SHINGLE FOR REMOVAL AND REMOVE PIECES OF SHINGLE ENDS-WITH ASIDE PIECES OF SHINGLE
NF	863	MAF	243	MTLSC01	146	SHINGLE, CUT WITH SHINGLE CUTTER, ASBESTOS SHINGLE STARTS-WITH REACH TO CUTTER HANDLE INCLUDES-ALL MOTIONS NECESSARY TO RAISE HANDLE TO OPEN CUTTER, ALIGN SHINGLE TO CUTTER, AND CUT SHINGLE ENDS-WITH COMPLETION OF CUT CONDITION-DOES NOT INCLUDE TIME TO GET AND ASIDE SHINGLE
NF	863	MAF	246	MTLSPXX	VARIABLE	SHINGLE, PUNCH HOLE WITH MANUAL PUNCH, ASBESTOS SHINGLE STARTS-WITH SHINGLE IN ONE HAND AND OTHER HAND ON PUNCH HANDLE INCLUDES-ALL MOTIONS NECESSARY TO RAISE HANDLE, POSITION SHINGLE TO PUNCH, LOWER HANDLE TO PUNCH HOLE, RAISE HANDLE, REMOVE SHINGLE, AND LOWER HANDLE ENDS-WITH SHINGLE IN HAND CASE 01 FIRST HOLE 02 EACH ADDITIONAL HOLE

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DEFENSE WORK MEASUREMENT STANDARD TIME DATA ELEMENTS

DATA SOURCE	OCCUP- ATION	QUALITY	SOURCE CODE	DWMSTOP ELEMENT	TMU VALUE	OPERATION/ELEMENT DESCRIPTION
NF	864	MAF	180	SJPSC01	2233	SANDPAPER, CHANGE ON DRUM SANDER STARTS-WITH GET WRENCH INCLUDES-ALL MOTIONS NECESSARY TO KNEEL, UNLOCK PAPER ON DRUM, REMOVE AND ASIDE USED PAPER, PICK UP NEW PAPER, PLACE ONE END OF PAPER IN DRUM SLOT, FOLD PAPER AND ROTATE DRUM, INSERT SECOND END OF PAPER IN SLOT, CREASE PAPER WITH WRENCH, INSERT FILLER, LOCK PAPER ON DRUM WITH WRENCH, AND ARISE ENDS-WITH ASIDE WRENCH CONDITIONS-TIME TO OBTAIN SANDPAPER NOT INCLUDED
NF	864	MAF	86	MOHFM01	162	FELT, MOVE ASIDE FOR ADHESIVE APPLICATION STARTS-WITH WALK THREE PACES TO END OF FELT INCLUDES-ALL MOTIONS NECESSARY TO STOOP, PICK UP END OF FELT, ARISE, AND WALK BACKWARD TO MOVE FELT ASIDE ENDS-WITH RELEASE OF FELT CONDITIONS-APPLICABLE TO INSTALLATION OF FELT ON WOOD FLOOR
NF	864	MAF	87	MOHFM02	263	FELT, MOVE INTO POSITION AFTER ADHESIVE APPLICATION STARTS-WITH STOOP TO PICK UP FELT INCLUDES-ALL MOTIONS NECESSARY TO PICK UP END OF FELT STRIP, WALK THREE PACES TO BRING FELT OVER ADHESIVE, KNEEL, POSITION FELT, AND PRESS FELT INTO PLACE ENDS-WITH ARISE FROM KNEELING POSITION CONDITION-TIME TO APPLY ADHESIVE NOT INCLUDED. APPLICABLE TO INSTALLATION OF FELT STRIP ON WOOD FLOOR
NF	864	MAF	81	MTPSL01	49	SANDER(DRUM), LOWER TO OR RAISE FROM FLOOR STARTS-WITH HANDS ON MACHINE HANDLE INCLUDES-ALL MOTIONS NECESSARY TO RELEASE MACHINE HANDLE, GET RELEASE LEVER, MOVE LEVER TO RELEASE DRUM, LOWER DRUM, RELEASE LEVER, AND REACH TO MACHINE HANDLE ENDS-WITH HANDS ON MACHINE HANDLE
NF	865	MAF	198	MNFP101	265	POINT(GLAZIER'S), INSTALL, PER POINT STARTS-WITH REACH TO GLAZIER'S POINT INCLUDES-ALL MOTIONS NECESSARY TO GET POINT, POSITION POINT, GET CHISEL, PRESS POINT IN, ASIDE CHISEL, GET HAMMER, AND TAP POINT ENDS-WITH ASIDE HAMMER
NF	865	MAF	105	MOHGP01	98	GLASS, PLACE IN AND REMOVE FROM WINDOW FOR TRIAL INSTALLATION STARTS-WITH GLASS IN HAND INCLUDES-ALL MOTIONS NECESSARY TO HOLD GLASS BY SIDES, POSITION BOTTOM CORNERS IN SASH, GRASP PANE NEAR TOP, MOVE PANE INTO SASH, AND REMOVE PANE FROM SASH ENDS-WITH PANE IN HAND CONDITION-APPLICABLE TO INSTALLATION OF WINDOW PANES 24X24-36X36 INCHES
NF	865	MAF	102	MOHGP02	138	GLASS, PLACE IN WINDOW FOR FINAL INSTALLATION STARTS-WITH GLASS IN HAND INCLUDES-ALL MOTIONS NECESSARY TO HOLD GLASS PANE BY SIDES, PLACE BOTTOM CORNERS IN SASH, GRASP PANE NEAR TOP, MOVE PANE INTO SASH, AND PRESS PANE IN PUTTY ENDS-WITH RELEASE OF GLASS CONDITION-APPLICABLE TO INSTALLATION OF WINDOW PANES 24X24-36X36 INCHES

DEFENSE WORK MEASUREMENT STANDARD TIME DATA ELEMENTS

DATA SOURCE	OCCUP- ATION	QUALITY	SOURCE CODE	OWMSTOP ELEMENT	TMU VALUE	OPERATION/ELEMENT DESCRIPTION
NF	866	MAF	3389	MNFFN01	68	FELT(ROOFING),NAIL WITH ROOFING NAILS,PER NAIL STARTS-WITH NAIL AND HAMMER IN HAND INCLUDES-ALL MOTICNS NECESSARY TO POSITION NAIL AND DRIVE WITH THREE HAMMER BLOWS ENDS-WITH HAMMER IN HAND
DNF	866	MAF	MOHAA01	MOHAA01	439	ASPHALT,APPLY FLOOD COAT FROM POUR CAN STARTS-WITH BEND TO FILLED POUR CAN INCLUDES-ALL MOTIONS NECESSARY TO PICK UP POUR CAN FILLED WITH ASPHALT,GET CAN WITH OTHER HAND,TILT CAN,AND POUR WITH SWEEPING MOTIONS WHILE SIDESTEPPING OVER AREA TO BE COATED ENDS-WITH ARISE FROM BEND,EMPTY CAN IN HAND CONDITIONS-FILLED CAN WEIGHS APPROXIMATELY 40 POUNDS.TIME TO WALK TO AND FROM ASPHALT CART NOT INCLUDED.
NF	866	MAF	41	MOHAE01	271	ASPHALT,EMPTY FROM BUCKET TO "LO-BOW" CART STARTS-WITH REACH TO BUCKET SUSPENDED ON HOIST INCLUDES-ALL MOTIONS NECESSARY TO PULL BUCKET TO CART,RAISE AND TILT BUCKET TO EMPTY IN CART,LOWER BUCKET,AND PLACE BUCKET IN POSITION TO BE LOWERED ENDS-WITH RELEASE OF BUCKET CONDITIONS-PROCESS TIME TO POUR ASPHALT NOT INCLUDED.BUCKET IS NOT DISCONNECTED FROM HOIST
DNF	866	MAF	241	MOHAMXX	VARIABLE	ASPHALT,MOP ON SURFACE FROM WHEELED BUCKET STARTS-WITH GET MOP FROM BUCKET INCLUDES-ALL MOTIONS NECESSARY TO GET ASPHALT ON MOP,MOP ASPHALT ON ROOF,AND RETURN MOP TO BUCKET ENDS-WITH RELEASE OF MOP CASE 01 FIRST AREA 2.5 X 5 FEET CASE 02 EACH ADDITIONAL AREA 2.5 X 5 FEET (REQUIRES MOVING WHEELED BUCKET TO NEXT AREA) 410 548
DNF	866	MAF	MOHBF01	MOHBF01	212	BUCKET,FILL WITH HOT ASPHALT FROM KETTLE STARTS-WITH BUCKET IN HAND INCLUDES-ALL MOTIONS NECESSARY TO BEND,PLACE BUCKET UNDER KETTLE SPOUT,OPEN SPOUT,CLOSE SPOUT,LIFT BUCKET FROM SPOUT,AND ARISE ENDS-WITH BUCKET OF ASPHALT IN HAND CONDITIONS-PROCESS TIME FOR BUCKET TO FILL NOT INCLUDED.FILLED BUCKET WEIGHS TO 40 POUNDS.
NF	866	MAF	35	MOHBRO1	199	BUCKET(EMPTY),REMOVE FROM HOIST AND ATTACH FULL BUCKET AT GROUND LEVEL STARTS-WITH FULL BUCKET IN HAND INCLUDES-ALL MOTIONS NECESSARY TO BEND,SET BUCKET BY HOIST,GET HOIST ROPE,OPEN HALLYARD CLASP,MOVE CLASP OFF EMPTY BUCKET,PUT CLASP ON HANDLE OF FULL BUCKET,MOVE FULL BUCKET IN POSITION FOR HOISTING,AND MOVE EMPTY BUCKET ASIDE ENDS-WITH ARISE,EMPTY BUCKET IN HAND CONDITIONS-APPLICABLE TO HANDLING BUCKETS OF HOT ASPHALT OR SIMILAR WITH UP TO 45 POUNDS ENW.
DNF	866	MAF	89	MTLFCXX	VARIABLE	FELT(ROOFING),CUT WITH KNIFE,PER LINEAR FOOT STARTS-WITH WALK TWO PACES TO FELT TO BE CUT INCLUDES-ALL MOTIONS NECESSARY TO KNEEL BY FELT,MOVE KNIFE TO FELT AND CUT ONE LINEAR FOOT ENDS-WITH ARISE CONDITIONS-DOES NOT INCLUDE TIME TO GET OR ASIDE KNIFE CASE 01 FIRST LINEAR FOOT CASE 02 EACH ADDITIONAL LINEAR FOOT(INCLUDES MOVE TO NEXT CUT AND CUT FELT) 165 85

DEFENSE WORK MEASUREMENT STANDARD TIME DATA ELEMENTS

DATA SOURCE	OCCUP- ATION	QUALITY	SOURCE CODE	DWMSTOP ELEMENT	TMU VALUE	OPERATION/ELEMENT DESCRIPTION
NF	866	MAF	110	MTLGS01	261	GRAVEL,SPRFAD WITH SHOVEL,PER SHOVELFUL STARTS-WITH SHOVEL IN HANDS INCLUDES-ALL MOTIONS NECESSARY TO BEND,GET SHOVELFUL OF GRAVEL FROM PILE,ARISE,TURN,AND SWING SHOVEL EIGHT TIMES BACK AND FORTH TO THINLY SPREAD GRAVEL ENDS-WITH SHOVEL IN HANDS CONDITIONS-APPLICABLE TO SPREADING GRAVEL OVER FLOOD COAT OF ASPHALT OR SIMILAR